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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 06:56:31 ; Search time 190.191 Seconds
(without alignments)
2744.464 Million cell updates/sec

Title: US-10-046-955-6

Perfect score: 319

Sequence: 1 gaaatgcgataagtaagt.....ggaataccgctgaacttaa 319

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

- 1: /cgn2_6/prodata/1/ina/SA COMB.seq:*
- 2: /cgn2_6/prodata/1/ina/SB COMB.seq:*
- 3: /cgn2_6/prodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/prodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/prodata/1/ina/PCTUS COMB.seq:*
- 6: /cgn2_6/prodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	319	100.0	319	US-09-423-233-6	Sequence 6, Appli
2	244.4	76.6	2293	US-09-645-073-1	Sequence 1, Appli
3	240.2	75.3	310	US-09-423-233-7	Sequence 7, Appli
4	240	75.2	561	US-08-905-314A-24	Sequence 24, Appli
5	211	66.1	581	US-08-652-127C-6	Sequence 6, Appli
6	210	65.8	531	US-08-652-127C-7	Sequence 7, Appli
7	209.6	65.7	583	US-08-652-127C-8	Sequence 8, Appli
8	191.6	60.1	594	US-08-652-127C-5	Sequence 5, Appli
9	183.8	57.6	504	US-08-887-480-82	Sequence 82, Appli
10	183.8	57.6	504	US-08-905-314A-19	Sequence 19, Appli
11	183.8	57.6	504	US-08-722-187-82	Sequence 82, Appli
12	183.8	57.6	504	PCT-US95-04712-82	Sequence 84, Appli
13	180.4	56.6	545	US-08-887-480-84	Sequence 21, Appli
14	180.4	56.6	545	US-08-905-314A-21	Sequence 96, Appli
15	180	56.4	546	US-08-887-480-96	Sequence 96, Appli
16	180	56.4	546	US-08-905-314A-22	Sequence 22, Appli
17	174.8	54.8	503	US-08-887-480-83	Sequence 83, Appli
18	174.8	54.8	503	US-08-905-314A-20	Sequence 20, Appli
19	174.8	54.8	503	US-08-722-187-83	Sequence 83, Appli
20	174.8	54.8	503	PCT-US95-04712-83	Sequence 83, Appli
21	171.4	53.7	504	US-09-481-293-32	Sequence 32, Appli
22	156.8	49.2	611	US-08-986-727-4	Sequence 4, Appli
23	154.8	48.5	545	US-08-722-187-85	Sequence 85, Appli
24	154.8	48.5	545	PCT-US95-04712-85	Sequence 85, Appli
25	145.6	45.6	608	US-08-986-727-3	Sequence 3, Appli
26	128.4	40.3	605	US-08-986-727-1	Sequence 1, Appli
27	126.6	39.7	365	US-09-423-233-3	Sequence 3, Appli

28	125.8	39.4	617	3	US-08-986-727-2	Sequence 2, Appli
29	125	39.2	587	1	US-08-742-023-7	Sequence 7, Appli
30	125	39.2	587	1	US-08-968-505-7	Sequence 7, Appli
31	123.2	38.6	365	3	US-09-423-233-5	Sequence 5, Appli
32	121.2	38.0	364	3	US-09-423-233-2	Sequence 2, Appli
33	118	37.0	353	2	US-08-722-187-84	Sequence 84, Appli
34	118	37.0	353	5	PCT-US95-04712-84	Sequence 84, Appli
35	118	37.0	568	3	US-08-986-727-5	Sequence 5, Appli
36	115.8	36.3	556	1	US-08-887-480-85	Sequence 23, Appli
37	115.8	36.3	556	1	US-08-905-314A-23	Sequence 23, Appli
38	112.4	35.2	597	1	US-08-742-023-3	Sequence 3, Appli
39	112.4	35.2	597	3	US-08-968-505-3	Sequence 3, Appli
40	111.2	34.9	346	3	US-09-423-233-24	Sequence 24, Appli
41	111	34.8	526	4	US-09-481-293-33	Sequence 33, Appli
42	110.2	34.5	343	3	US-09-423-233-27	Sequence 27, Appli
43	110.2	34.5	344	3	US-09-423-233-26	Sequence 26, Appli
44	110.2	34.5	588	1	US-08-742-023-5	Sequence 5, Appli
45	110.2	34.5	588	3	US-08-968-505-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1

US-09-423-233-6

; Sequence 6, Application US/09423233

; Patent No. 6372430

; GENERAL INFORMATION:

; APPLICANT: The Government of the United States of America as

; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and

; FILE REFERENCE: 03063-0341WP

; CURRENT APPLICATION NUMBER: US/09/423,233

; CURRENT FILING DATE: 2000-06-27

; NUMBER OF SEQ ID NOS: 61

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 6

; LENGTH: 319

; TYPE: DNA

; ORGANISM: Fusarium solani

US-09-423-233-6

Query Match 100.0%; Score 319; DB 3; Length 319;
Best Local Similarity 100.0%; Pred. No. 3.2e-96;
Matches 319; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GAAATGCGATAGTAATGTAATTCAGATTCAGTGAATTCATCGAATCTTTGAACGCA	60
Db	1	GAAATGCGATAGTAATGTAATTCAGATTCAGTGAATTCATCGAATCTTTGAACGCA	60
Qy	61	CATTGCGCGCGCCAGTATTCTTGGCGGGCATGCTGTTGAGCGTCATTACAAACCTCAGG	120
Db	61	CATTGCGCGCGCCAGTATTCTTGGCGGGCATGCTGTTGAGCGTCATTACAAACCTCAGG	120
Qy	121	CCCCCGGCGCTGGCGTTCGGGATCGGGAAGCCCTTCGGGCAACACCGCTCCCCCA	180
Db	121	CCCCCGGCGCTGGCGTTCGGGATCGGGAAGCCCTTCGGGCAACACCGCTCCCCCA	180
Qy	181	AATACAGTGGCGGTCCCGCGCAGCTTCATTGCGTAGTAGTACACCTCGCAACTGGA	240
Db	181	AATACAGTGGCGGTCCCGCGCAGCTTCATTGCGTAGTAGTACACCTCGCAACTGGA	240
Qy	241	GAGCGCGCGGCGCAGCGTGAACCAACCACTTCTGAATGTTGACCTCGAATCAGGTAG	300
Db	241	GAGCGCGCGGCGCAGCGTGAACCAACCACTTCTGAATGTTGACCTCGAATCAGGTAG	300
Qy	301	GAATACCGCTGAACCTTAA	319
Db	301	GAATACCGCTGAACCTTAA	319

RESULT 2

US-09-645-073-1


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; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 531
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
US-08-652-127C-7

Query Match      65.8%; Score 210; DB 1; Length 531;
Best Local Similarity 85.2%; Pred. No. 7.6e-60;
Matches 271; Conservative 0; Mismatches 37; Indels 10; Gaps 3;

Qy  3 AAATGCGATAAGTAATGTGAATTCGAGAAATTCAGTAATCATCGAAATCTTTGAACGCACA 62
Db  203 AAATGCGATAAGTAATGTGAATTCGAGAAATTCAGTAATCATCGAAATCTTTGAACGCACA 262
Qy  63 TTGGCGCCGCGAGTAATCTCGCGGGCATGCTGTTTCGAGCGTCAATACAAACCTTCAGGCC 122
Db  263 TTGGCGCCGCGAGTAATCTCGCGGGCATGCTGTTTCGAGCGTCAATTCACACCTCAAGCC 322
Qy  123 CCGGGGCTGCGGTGGGGATCGCGGGAAGCCCTCGGGGCACAAACGCGCTCCCCAAA 182
Db  323 CCGGGGCTGCGGTGGGGATNGCGTGCCCGCGGGCG-----CGCCNGCTCTCTAAA 376
Qy  183 TACAGTGGCGTCCGCGCGAGCTTCCATTGCGTAGTAGCTAAACACCTCGCAACTGAGAGA 242
Db  377 TATAGTGGCGGTCTCGGTGTAGCTTCTCTGCGTAGTAGCACACCTCGC---ACTGGAAA 433
Qy  243 GCGGCGGGCCACGCGCGTAAACACCAACCTTCTG-AATGTTGACCTCGAATCAGGTAGG 301
Db  434 ACAGCGGGCCACGCGGTAAACCCCACTTCTGAAAGGTTGACCTCGGATCAGGTAGG 493
Qy  302 AATACCGCTGAACCTTAA 319
Db  494 AATACCGCTGAACCTTAA 511

RESULT 7
US-08-652-127C-8
; Sequence 8, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESSEE: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 583
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
US-08-652-127C-5

; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-652-127C-8

Query Match      65.7%; Score 209.6; DB 1; Length 583;
Best Local Similarity 85.5%; Pred. No. 1.1e-59;
Matches 272; Conservative 0; Mismatches 34; Indels 12; Gaps 3;

Qy  3 AAATGCGATAAGTAATGTGAATTCGAGAAATTCAGTAATCATCGAAATCTTTGAACGCACA 62
Db  257 AAATGCGATAAGTAATGTGAATTCGAGAAATTCAGTAATCATCGAAATCTTTGAACGCACA 316
Qy  63 TTGGCGCCGCGAGTAATCTCGCGGGCATGCTGTTTCGAGCGTCAATACAAACCTTCAGGCC 122
Db  317 TTGGCGCCGCGAGTAATCTCGCGGGCATGCTGTTTCGAGCGTCAATTCAAACCTTCAGGCC 376
Qy  123 CCGGGGCTGCGGTGGGGATCGCGGGAAGCCCTCGGGGCACAAACGCGCTCCCCAAA 182
Db  377 CCGGGGCTGCGGTGGGGATCGCGGAGCTCGCGGC-----CGCGTCCCCCTAAA 428
Qy  183 TACAGTGGCGTCCGCGCGAGCTTCCATTGCGTAGTAGCTAAACACCTCGCAACTGAGAGA 242
Db  429 TCTAGTGGCGTCTCGCTGTAGCTTCTCTGCGTAGTAGCACACCTCGC---ACTGGGAA 485
Qy  243 GCGGCGGGCCACGCGCGTAAACACCAACCTTCTGATG-TTGACCTCGAATCAGGTAGG 301
Db  486 ACAGCGGGCCACGCGGTAAACCCCACTTCTGAAAGTTCGACCTCGGATCAGGTAGG 545
Qy  302 AATACCGCTGAACCTTAA 319
Db  546 AATACCGCTGAACCTTAA 563

RESULT 8
US-08-652-127C-5
; Sequence 5, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESSEE: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 594
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
US-08-652-127C-5
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/905,314A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: CCG 1944
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8587
TELEFAX: (919) 541-8689
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 504 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Fusarium culmorum
INDIVIDUAL ISOLATE: R-5106, R-5126, and R-5146
INDIVIDUAL ISOLATE: (consensus sequence)
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..12
OTHER INFORMATION: /note= "3' end of small subunit"
OTHER INFORMATION: rRNA gene"
FEATURE:
NAME/KEY: misc feature
LOCATION: 13..161
OTHER INFORMATION: /note= "ITS 1"
FEATURE:
NAME/KEY: misc feature
LOCATION: 162..318
OTHER INFORMATION: /note= "5.8S rRNA gene"
FEATURE:
NAME/KEY: misc feature
LOCATION: 319..472
OTHER INFORMATION: /note= "ITS 2"
FEATURE:
NAME/KEY: misc feature
LOCATION: 473..504
OTHER INFORMATION: /note= "5' end of large subunit"
OTHER INFORMATION: rRNA gene"
US-08-905-314A-19

Query Match 57.6%; Score 183.8; DB 1; Length 504;
Best Local Similarity 81.5%; Pred. No. 3.9e-51;
Matches 255; Conservative 1; Mismatches 38; Indels 19; Gaps 3;
Qy 2 AAAATGCGATAAGTAATGTGAATTGCGAGAAATTCAGTGAATTCATCGAATCTTTGAACGCAC 61
Db 211 AAAATGCGATAAGTAATGTGAATTGCGAGAAATTCAGTGAATTCATCGAATCTTTGAACGCAC 270
Qy 62 ATTGCGCCCGCCAGTATTCCTGGCGGCATGCTGTTTCGAGCGTCATTACAACTTCAGGC 121
Db 271 ATTGCGCCCGCCAGTATTCCTGGCGGCATGCTGTTTCGAGCGTCATTACAACTTCAGGC 330
Qy 122 CCCCGGGCCCTGGCGTTCGGGATCGGGGAGCCCGCTGCGGCGACACCGCGTCCGCCAA 181
Db 331 CC---AGCTTGGTGTGGGAGCTG-----CAGTCCTGCTGCATCTCCGCCAA 372
Qy 182 ATACAGTGGCGGTCCCGCCGAGCTTCATTTGGGTAGTAGCTAACACCTCGCAACTGGAG 241
Db 373 ATACATTGGCGGTCACTGTCAGCTTCATAGGCTAGTAGTAATTTACATATCTGTTACTGGTA 432
Qy 242 AGCGGCGCGCCAGCCCGTAAACACCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 301
Db 433 ATCGTCGCGGCGACGCGGTATAAC-CCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 491

Qy 302 AATACCCGCTGAA 314
Db 492 AATACCCGCTGAA 504
RESULT 11
US-08-722-187-82
Sequence 82, Application US/08722187
Patent No. 5955274
GENERAL INFORMATION:
APPLICANT: Ligon, James M
APPLICANT: Beck, James J
TITLE OF INVENTION: Detection of Fungal Pathogens Using the
TITLE OF INVENTION: Polymetase Chain Reaction
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ciba-Geigy Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/722,187
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/233,608
FILING DATE: 04-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Walsh, Andrea C.
REGISTRATION NUMBER: 34,988
REFERENCE/DOCKET NUMBER: CGC 1739
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8666
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 504 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..504
OTHER INFORMATION: /note= "DNA sequence for the
OTHER INFORMATION: internal transcribed spacer region of Fusarium culmorum"
OTHER INFORMATION: (fculm.con)"
US-08-722-187-82

Query Match 57.6%; Score 183.8; DB 2; Length 504;
Best Local Similarity 81.5%; Pred. No. 3.9e-51;
Matches 255; Conservative 1; Mismatches 38; Indels 19; Gaps 3;
Qy 2 AAAATGCGATAAGTAATGTGAATTGCGAGAAATTCAGTGAATTCATCGAATCTTTGAACGCAC 61
Db 211 AAAATGCGATAAGTAATGTGAATTGCGAGAAATTCAGTGAATTCATCGAATCTTTGAACGCAC 270
Qy 62 ATTGCGCCCGCCAGTATTCCTGGCGGCATGCTGTTTCGAGCGTCATTACAACTTCAGGC 121
Db 271 ATTGCGCCCGCCAGTATTCCTGGCGGCATGCTGTTTCGAGCGTCATTACAACTTCAGGC 330
Qy 122 CCCCGGGCCCTGGCGTTCGGGATCGGGGAGCCCGCTGCGGCGACACCGCGTCCGCCAA 181
Db 331 CC---AGCTTGGTGTGGGAGCTG-----CAGTCCTGCTGCATCTCCGCCAA 372

QY 182 ATACAGTGGGGTCCCGCGCGAGCTTCCATTCGGTAGTAGTAAACACCTCGCAACTGGAG 241
Db 373 ATACATTTGGGGTTCAGCTCGAGCTTCCATAGCGTAGTAATTTACATATCGTTACTGGTA 432
QY 242 AGCGGGCGCGCACGCGGTAAACACCCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 301
Db 433 ATCGTCCGCGCTACGCGGTAAAC-CCCAACTTCTGAATGTTGACCTCGGATCAGGTAGG 491
QY 302 AATACCCGCTGAA 314
Db 492 AATACCCGCTGAA 504
RESULT 12
PCT-US95-04712-82
; Sequence 82, Application PC/TUS9504712
; GENERAL INFORMATION:
; APPLICANT: Ligon, James M
; APPLICANT: Beck, James J
; TITLE OF INVENTION: Detection of Fungal Pathogens Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ciba-Geigy Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: NY
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04712
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/233,608
; FILING DATE: 04-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Walsh, Andrea C.
; REGISTRATION NUMBER: 34,988
; REFERENCE/DOCKET NUMBER: CGC 1739
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8666
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 82:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 504 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..504
; OTHER INFORMATION: /note= "DNA sequence for the
; OTHER INFORMATION: internal transcribed spacer region of Fusarium culmorum
; OTHER INFORMATION: (fculm.con)"
PCT-US95-04712-82
Query Match 57.6%; Score 183.8; DB 5; Length 504;
Best Local Similarity 81.5%; Pred. No. 3.9e-51;
Matches 255; Conservative 1; Mismatches 38; Indels 19; Gaps 3;
QY 2 AAAATGCGATAAGTGAATTCAGAAATTCAGTAATCATCGAATCTTTGAACGCAC 61
Db 211 AAAATGCGATAAGTGAATTCAGAAATTCAGTAATCATCGAATCTTTGAACGCAC 270
QY 62 ATTCGCGCGCGCAGTATTCTGCGGGCGCATGCTGTTGCGAGCGCTATTACAACCCCTCAGGC 121

Db 271 ATTGCGCGCGCAGTATTCTGCGGGCGCATGCTGTTGCGAGCGTCAATTCACACCTCAAGC 330
QY 122 CCCCGGGCTGCGCTTGGGATCGCGGGAAGCCCCCTCGGGGCAACAACGCGTCCCCCAA 181
Db 331 CC---AGCTTGGTGTGGAGCTG-----CAGTCTGCTGCACTCCCCCAA 372
QY 182 ATACAGTGGCGTCCCGCGCAGCTTCCATTCGCTAGTAGTAAACACCTCGCAACTGGAG 241
Db 373 ATACATTTGGCGGTACGCTCGAGCTTCCATAGCGTAGTAATTTACATATCGTTACTGGTA 432
QY 242 AGCGGGCGCGCACGCGGTAAACACCCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 301
Db 433 ATCGTCCGCGCAGCGGTAAAC-CCCAACTTCTGAATGTTGACCTCGGATCAGGTAGG 491
QY 302 AATACCCGCTGAA 314
Db 492 AATACCCGCTGAA 504
RESULT 13
US-08-887-480-84
; Sequence 84, Application US/08887480
; Patent No. 5814453
; GENERAL INFORMATION:
; APPLICANT: Beck, James J
; TITLE OF INVENTION: Detection of Fungal Pathogens Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; NUMBER OF SEQUENCES: 96
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5814453artis Corporation
; STREET: 520 White Plains Road
; CITY: Tarrytown
; STATE: NY
; COUNTRY: USA
; ZIP: 10591
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/887,480
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/722,187
; FILING DATE: 15-OCT-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timothy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: CGC 1739/PCT/CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8587
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 545 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: Fusarium moniliforme
; INDIVIDUAL ISOLATE: 4551
; IMMEDIATE SOURCE:
; CLONE: pCRFMON1
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..30
; OTHER INFORMATION: /note= "3' end of small subunit
; OTHER INFORMATION: rRNA gene"
; FEATURE:

Sequence 96, Application US/08887480
Patent No. 5814453
GENERAL INFORMATION:
APPLICANT: Beck, James J
TITLE OF INVENTION: Detection of Fungal Pathogens Using the
NUMBER OF SEQUENCES: 96
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 5814453artis Corporation
STREET: 520 White Plains Road
CITY: Tarrytown
STATE: NY
COUNTRY: USA
ZIP: 10591
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/887,480
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/722,187
FILING DATE: 15-OCT-1996
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: CGC 1739/PCT/CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8587
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 96:
SEQUENCE CHARACTERISTICS:
LENGTH: 546 base pairs
TYPE: nucleic acid
STRAINEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
STRAIN: Fusarium poae
INDIVIDUAL ISOLATE: T-427, T-534, and T-756 (consensus
INDIVIDUAL ISOLATE: sequence)
IMMEDIATE SOURCE:
CLONE: PCRpoaeT427(1-2), PCRpoaeT534(2-2), and
CLONE: PCRpoaeT756(3-1)
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LOCATION: 1..30
OTHER INFORMATION: /note= "3' end of small subunit
OTHER INFORMATION: rRNA gene"
FEATURE:
NAME/KEY: misc feature
LOCATION: 31..180
OTHER INFORMATION: /note= "ITS 1"
FEATURE:
NAME/KEY: misc feature
LOCATION: 181..337
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FEATURE:
NAME/KEY: misc feature
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LOCATION: 490..546
OTHER INFORMATION: /note= "5' end of large subunit
OTHER INFORMATION: rRNA gene"

Query Match 56.4%; Score 180; DB 1; Length 546;
Best Local Similarity 82.4%; Pred. No. 7.5e-50;

Matches 262; Conservative 0; Mismatches 35; Indels 21; Gaps 4;
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Db |||||
Qy 230 AAAATGCGATAGTAATGTGAATTCAGAAATTCAGTGAATCATCGAATCTTTGAACGCAC 289
Db |||||
Qy 62 ATTGCGCGCGCAGTATTCTGCGGGGCATGCTGTTCGAGCGTCATTACAAACCTCAGGC 121
Db |||||
Qy 290 ATTGCGCGCGCAGTATTCTGCGGGGCATGCTGTTCGAGCGTCATTACAAACCTCAGGC 349
Db |||||
Qy 122 CCCCAGGCTGCGTTCGGGATCGCGGGAGCCCTTCGGGCAACAACCGCTCCCCAA 181
Db |||||
Qy 350 CC---AGCTTGGTGTGGG-----ATCTGTGTGCAAAACACAGTCCCCAA 390
Db |||||
Qy 182 ATACAGTGGCGGTCCCGCGCAGCTTCATTTCGCTAGTAGCTAAACACCTCGCAACTGGAG 241
Db |||||
Qy 391 ATTGATTGGCGGTACGTCG-AGCTTCATAGCGTAGTAATTTACACATCGTTACTGGTA 449
Db |||||
Qy 242 AGCGCGCGGGCCACGCCCGTAAACACCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 301
Db |||||
Qy 450 ATCGTGGCGGCCACGCCCGTTAAAC-CCCAACTTCTGAATGTTGACCTCGGATCAGGTAGG 508
Db |||||
Qy 302 AATACCGCTGNACTTAA 319
Db |||||
Qy 509 AATACCGCTGNACTTAA 526
Db |||||

Search completed: October 23, 2005, 16:07:05
Job time : 192.191 secs

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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 15:20:46 ; Search time 1379.23 Seconds
(without alignments)
1907.926 Million cell updates/sec

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Perfect score: 319
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9772231 seqs, 4124568258 residues
Total number of hits satisfying chosen parameters: 19544462

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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26:	/cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	319	100.0	319	15	US-10-046-955-6 Sequence 6, Appli
2	259	81.2	552	21	US-10-829-661-5 Sequence 5, Appli
3	259	81.2	552	21	US-10-672-300-5 Sequence 5, Appli
4	240.4	75.4	534	10	US-09-961-755A-7 Sequence 7, Appli
5	240.4	75.4	534	20	US-10-773-904-7 Sequence 7, Appli
6	240.4	75.4	534	20	US-10-773-905-7 Sequence 7, Appli
7	240.2	75.3	310	15	US-10-046-955-7 Sequence 7, Appli

8	183.2	57.4	522	10	US-09-961-755A-5 Sequence 5, Appli
9	183.2	57.4	522	10	US-09-961-755A-8 Sequence 8, Appli
10	183.2	57.4	522	20	US-10-773-904-5 Sequence 5, Appli
11	183.2	57.4	522	20	US-10-773-904-8 Sequence 8, Appli
12	183.2	57.4	522	20	US-10-773-905-5 Sequence 5, Appli
13	183.2	57.4	522	20	US-10-773-905-8 Sequence 8, Appli
14	176.4	55.3	521	10	US-09-961-755A-6 Sequence 6, Appli
15	176.4	55.3	521	20	US-10-773-904-6 Sequence 6, Appli
16	176.4	55.3	521	20	US-10-773-905-6 Sequence 6, Appli
17	169	53.0	780	20	US-10-425-115-137730 Sequence 137730,
18	131.8	41.3	652	16	US-10-121-740-2 Sequence 2, Appli
19	131.8	41.3	652	19	US-10-623-432-2 Sequence 2, Appli
20	131.8	41.3	652	24	US-11-131-659-2 Sequence 2, Appli
21	126.6	39.7	365	15	US-10-046-955-3 Sequence 3, Appli
22	126.4	39.6	577	22	US-10-757-093-28 Sequence 28, Appli
23	123.2	38.6	365	15	US-10-046-955-5 Sequence 5, Appli
24	121.2	38.0	364	15	US-10-046-955-2 Sequence 2, Appli
25	120	37.6	528	22	US-10-757-093-29 Sequence 29, Appli
26	119.8	37.6	650	16	US-10-121-740-4 Sequence 4, Appli
27	119.8	37.6	650	19	US-10-623-432-4 Sequence 4, Appli
28	119.8	37.6	650	24	US-11-131-659-4 Sequence 4, Appli
29	117.8	36.9	596	21	US-10-829-661-1 Sequence 1, Appli
30	117.8	36.9	596	21	US-10-672-300-1 Sequence 1, Appli
31	114.2	35.8	641	9	US-09-766-173C-4 Sequence 4, Appli
32	111.2	34.9	346	15	US-10-046-955-24 Sequence 24, Appli
33	110.6	34.7	618	9	US-09-766-173C-5 Sequence 5, Appli
34	110.2	34.5	343	15	US-10-046-955-27 Sequence 27, Appli
35	110.2	34.5	344	15	US-10-046-955-26 Sequence 26, Appli
36	109.2	34.2	346	15	US-10-046-955-25 Sequence 25, Appli
37	108	33.9	309	15	US-10-046-955-28 Sequence 28, Appli
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39	106.4	33.4	336	15	US-10-046-955-29 Sequence 29, Appli
40	105.6	33.1	377	9	US-09-961-663-14 Sequence 14, Appli
41	105.6	33.1	377	9	US-09-961-663-15 Sequence 15, Appli
42	105.6	33.1	377	9	US-09-961-663-16 Sequence 16, Appli
43	105.6	33.1	377	9	US-09-961-663-19 Sequence 19, Appli
44	103.6	32.5	495	21	US-10-829-661-6 Sequence 6, Appli
45	103.6	32.5	495	21	US-10-672-300-6 Sequence 6, Appli

ALIGNMENTS

RESULT 1

US-10-046-955-6
; Sequence 6, Application US/10046955
; Publication No. US20030129600A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as Represented by the
; APPLICANT: Secretary of the Department of Health and Human Services, Centers for DI
; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Aldorevich, Liliana
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; TITLE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Fusarium solani
US-10-046-955-6

; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-09-961-755A-7

Query Match 75.4%; Score 240.4; DB 10; Length 534;
Best Local Similarity 87.9%; Pred. No. 6.8e-75;
Matches 276; Conservative 0; Mismatches 31; Indels 7; Gaps 1;

QY 2 AAATCGGTAAGTAATGGAATTCAGAAATTCAGTAATCATCGAATCTTTGAACGCAC 61
DB 228 AAATCGGTAAGTAATGGAATTCAGAAATTCAGTAATCATCGAATCTTTGAACGCAC 287

QY 62 ATTGCGCCGCCAGTATCTGCGGGCATGCTGTTTCGAGCGTCATTACAAACCTTCAGGC 121
DB 288 ATTGCGCCGCCAGTATCTGCGGGCATGCTGTTTCGAGCGTCATTACAAACCTTCAGGC 347

QY 122 CCCCGGCTTGGGATCGCGGAAGCCCTTCGCGGCACAAACCCCTCCGCCAA 181
DB 348 CCCCGGCTTGGGATCGCGGAAGCCCTTCGCGGCACAAACCCCTCCGCCAA 400

QY 182 ATACAGTGGCGTCCCGCGAGCTTCCATTTGGTAGTAGCTTAACACCTTCGAACTGGAG 241
DB 401 ATCTAGTGGCGTCTCGCTGCAGCTTCCATTTGGTAGTAGTAAACCCCTTCGAACTGGTA 460

QY 242 AGCGGGCGGCCAGCGCTAAACACCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 301
DB 461 CGCGGGCGGCCAGCGCTAAACACCCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 520

QY 302 AATACCCGCTGAAC 315
DB 521 AATACCCGCTGAAC 534

RESULT 5
US-10-773-904-7
; Sequence 7, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,904
; PRIOR FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-904-7

Query Match 75.4%; Score 240.4; DB 20; Length 534;
Best Local Similarity 87.9%; Pred. No. 6.8e-75;
Matches 276; Conservative 0; Mismatches 31; Indels 7; Gaps 1;

QY 2 AAATCGGTAAGTAATGGAATTCAGAAATTCAGTAATCATCGAATCTTTGAACGCAC 61
DB 228 AAATCGGTAAGTAATGGAATTCAGAAATTCAGTAATCATCGAATCTTTGAACGCAC 287

QY 62 ATTGCGCCGCCAGTATCTGCGGGCATGCTGTTTCGAGCGTCATTACAAACCTTCAGGC 121
DB 288 ATTGCGCCGCCAGTATCTGCGGGCATGCTGTTTCGAGCGTCATTACAAACCTTCAGGC 347

QY 122 CCCCGGCTTGGGATCGCGGAAGCCCTTCGCGGCACAAACCCCTCCGCCAA 181

DB 348 CCCCGGCTTGGTGTGGGATCGCGGAGCCCTTCGGGC-----AAGCCGCCCCCGAA 400
QY 182 ATACAGTGGCGTCCCGCGAGCTTCCATTTGGTAGTAGCTTAACACCTTCGAACTGGAG 241
DB 401 ATCTAGTGGCGTCTCGCTGCAGCTTCCATTTGGTAGTAGTAAACCCCTTCGAACTGGTA 460
QY 242 AGCGGGCGGCCAGCGCTAAACACCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 301
DB 461 CGCGGGCGGCCAGCGCTAAACACCCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 520

QY 302 AATACCCGCTGAAC 315
DB 521 AATACCCGCTGAAC 534

RESULT 6
US-10-773-905-7
; Sequence 7, Application US/10773905
; Publication No. US20040259121A1
; GENERAL INFORMATION:
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,905
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-905-7

Query Match 75.4%; Score 240.4; DB 20; Length 534;
Best Local Similarity 87.9%; Pred. No. 6.8e-75;
Matches 276; Conservative 0; Mismatches 31; Indels 7; Gaps 1;

QY 2 AAATCGGTAAGTAATGGAATTCAGAAATTCAGTAATCATCGAATCTTTGAACGCAC 61
DB 228 AAATCGGTAAGTAATGGAATTCAGAAATTCAGTAATCATCGAATCTTTGAACGCAC 287

QY 62 ATTGCGCCGCCAGTATCTGCGGGCATGCTGTTTCGAGCGTCATTACAAACCTTCAGGC 121
DB 288 ATTGCGCCGCCAGTATCTGCGGGCATGCTGTTTCGAGCGTCATTACAAACCTTCAGGC 347

QY 122 CCCCGGCTTGGGATCGCGGAAGCCCTTCGCGGCACAAACCCCTCCGCCAA 181
DB 348 CCCCGGCTTGGGATCGCGGAAGCCCTTCGCGGCACAAACCCCTCCGCCAA 400

QY 182 ATACAGTGGCGTCCCGCGAGCTTCCATTTGGTAGTAGCTTAACACCTTCGAACTGGAG 241
DB 401 ATCTAGTGGCGTCTCGCTGCAGCTTCCATTTGGTAGTAGTAAACCCCTTCGAACTGGTA 460

QY 242 AGCGGGCGGCCAGCGCTAAACACCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 301
DB 461 CGCGGGCGGCCAGCGCTAAACACCCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 520

QY 302 AATACCCGCTGAAC 315
DB 521 AATACCCGCTGAAC 534

RESULT 7
US-10-046-955-7
; Sequence 7, Application US/10046955
; Publication No. US20030129600A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as Represented by the
; SECRETARY: Secretary of the Department of Health and Human Services, Centers for Dis

; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Adorevich, Lilliana
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; TITLE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Fusarium moniliforme
US-10-046-955-7

Query Match 75.3%; Score 240.2; DB 15; Length 310;
Best Local Similarity 87.4%; Pred. No. 6.6e-75;
Matches 277; Conservative 0; Mismatches 33; Indels 7; Gaps 1;

QY 3 AAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTTGAACGCACA 62
Db 1 AAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTTGAACGCACA 60

QY 63 TTGGCCCGCCAGTATTCCTGGCGGCGATGCTTTCAGAGCGTCAATTAACACCCCTCAGGCC 122
Db 61 TTGGCCCGCCAGTATTCCTGGCGGCGATGCTTTCAGAGCGTCAATTAACACCCCTCAGGCC 120

QY 123 CCCGGGCTGGCTTGGGATCGCGGAAGCCCTCGGGCACAACCGCTGCCCAAA 182
Db 121 CCCGGGTTGGTGTGGGATCGCGGAAGCCCTTCGGGC-----AAGCCGGCCCCGAAA 173

QY 183 TACATGGCGCTCCCGCGCAGCTTCCATTGCGTAGTAGCTAAACACCTCGCAACTGGAGA 242
Db 174 TCTAGTGGCGCTTCGCTGCGAGCTTCCATTGCGTAGTAGTAATAACCCCTCGCAACTGGTAC 233

QY 243 GCGGCGGCGCACCGCGTAAACCCCACTTCTGAAATGTTGACCTCGAATCAGGTAGGA 302
Db 234 GCGGCGGCGCACCGCGTAAACCCCACTTCTGAAATGTTGACCTCGAATCAGGTAGGA 293

QY 303 ATACCCGCTGAACCTTAA 319
Db 294 ATACCCGCTGAACCTTAA 310

RESULT 8
US-09-961-755A-5
; Sequence 5, Application US/09961755A
; Publication No. US20030113722A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species Infecting Corn Using the
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/09/961,755A
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium subglutinans
US-09-961-755A-5

Query Match 57.4%; Score 183.2; DB 10; Length 522;
Best Local Similarity 83.4%; Pred. No. 1.8e-54;
Matches 262; Conservative 0; Mismatches 33; Indels 19; Gaps 4;

QY 2 AAAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTTGAACGCAC 61
Db 228 AAAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTTGAACGCAC 287

QY 62 ATTGCGCCCGCCAGTATTCCTGGCGGCGATGCTTTCGAGCGTCAATTAACACCCCTCAGGC 121
Db 288 ATTGCGCCCGCCAGTATTCCTGGCGGCGATGCTTTCGAGCGTCAATTAACACCCCTCAGGC 347

QY 122 CCCGGGCTGGCTTGGGATCGCGGAAGCCCTCGGGCACAACCGCTGCCCAA 181
Db 348 CC---AGCTTGGTGTGGGACTC-----GCGAGTCAATCGCGTTCGCCAA 390

QY 182 ATACAGTGGCGTCCCGCCAGCTTCCATTGCGTAGTAGCTAAACACCTCGCAACTGGAG 241
Db 391 ATTGATTGGCGTCACTGCG-AGCTTCCATAGCGTAGTAGTAATAACCCCTGTTACTGGTA 449

QY 242 AGCGGCGGCGCACCGCGTAAACACCCCACTTCTGAAATGTTGACCTCGAATCAGGTAGG 301
Db 450 ATCGTCGCGGCCACGCGCTTAAAC-CCCAACTTCTGAATGTTGACCTCGGATCAGGTAGG 508

QY 302 AATACCCGCTGAAC 315
Db 509 AATACCCGCTGAAC 522

RESULT 9
US-09-961-755A-8
; Sequence 8, Application US/09961755A
; Publication No. US20030113722A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species Infecting Corn Using the
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/09/961,755A
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium verticillioides (syn. F. moniliforme)
US-09-961-755A-8

Query Match 57.4%; Score 183.2; DB 10; Length 522;
Best Local Similarity 83.4%; Pred. No. 1.8e-54;
Matches 262; Conservative 0; Mismatches 33; Indels 19; Gaps 4;

QY 2 AAAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTTGAACGCAC 61
Db 228 AAAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTTGAACGCAC 287

QY 62 ATTGCGCCCGCCAGTATTCCTGGCGGCGATGCTTTCGAGCGTCAATTAACACCCCTCAGGC 121
Db 288 ATTGCGCCCGCCAGTATTCCTGGCGGCGATGCTTTCGAGCGTCAATTAACACCCCTCAGGC 347

QY 122 CCCGGGCTGGCTTGGGATCGCGGAAGCCCTCGGGCACAACCGCTGCCCAA 181
Db 348 CC---AGCTTGGTGTGGGACTC-----GCGAGTCAATCGCGTTCGCCAA 390

QY 182 ATACAGTGGCGTCCCGCCAGCTTCCATTGCGTAGTAGCTAAACACCTCGCAACTGGAG 241
Db 391 ATTGATTGGCGTCACTGCG-AGCTTCCATAGCGTAGTAGTAATAACCCCTGTTACTGGTA 449

QY 242 AGCGGCGGCGCACCGCGTAAACACCCCACTTCTGAAATGTTGACCTCGAATCAGGTAGG 301
Db 450 ATCGTCGCGGCCACGCGCTTAAAC-CCCAACTTCTGAATGTTGACCTCGGATCAGGTAGG 508

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Qy 302 AATACCCGCTGAAC 315
Db 509 AATACCCGCTGAAC 522

RESULT 10
US-10-773-904-5
; Sequence 5, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium subglutinans
US-10-773-904-5

Query Match 57.4%; Score 183.2; DB 20; Length 522;
Best Local Similarity 83.4%; Pred. No. 1.8e-54;
Matches 262; Conservative 0; Mismatches 33; Indels 19; Gaps 4;

Qy 2 AAAATGCGATAAGTAATGGAATTCAGGAATTCAGTAATCATCGAATCTTTTGAACGCAC 61
Db 228 AAAATGCGATAAGTAATGGAATTCAGGAATTCAGTAATCATCGAATCTTTTGAACGCAC 287

Qy 62 ATTGCGCCCGCAGTATTCTGCGGGCATGCTGTTGAGCGCTGTTTCAACCCCTCAGGC 121
Db 288 ATTGCGCCCGCAGTATTCTGCGGGCATGCTGTTGAGCGCTGTTTCAACCCCTCAGGC 347

Qy 122 CCCGGGCTGCGGTTGGGATCGCGGAAGCCCTCGGGGCAACACCGCTGCCCAA 181
Db 348 CC---AGCTTGGTGTGGACTC-----GCGAGTCAAAATCGCGTTCCCAA 390

Qy 182 ATACAGTGGCGTCCCGCGCAGCTTCCATTGCGTAGTCTAACACCTCGCACTGGAG 241
Db 391 ATTGATTGCGGTACGTCG-AGCTTCCATAGCTAGTAGTAAACCCCTCGTTACTGTA 449

Qy 242 AGCGCGCGGCACGCCGTAAACACCCAACTTCTGAATGTTTGACCTCGAATCAGGTAGG 301
Db 450 ATCGTCGCGGCACGCCGTAAAC-CCCAACTTCTGAATGTTTGACCTCGGATCAGGTAGG 508

Qy 302 AATACCCGCTGAAC 315
Db 509 AATACCCGCTGAAC 522

RESULT 11
US-10-773-904-5
; Sequence 8, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium subglutinans
US-10-773-904-5

Query Match 57.4%; Score 183.2; DB 20; Length 522;
Best Local Similarity 83.4%; Pred. No. 1.8e-54;
Matches 262; Conservative 0; Mismatches 33; Indels 19; Gaps 4;

Qy 2 AAAATGCGATAAGTAATGGAATTCAGGAATTCAGTAATCATCGAATCTTTTGAACGCAC 61
Db 228 AAAATGCGATAAGTAATGGAATTCAGGAATTCAGTAATCATCGAATCTTTTGAACGCAC 287

Qy 62 ATTGCGCCCGCAGTATTCTGCGGGCATGCTGTTGAGCGCTGTTTCAACCCCTCAGGC 121
Db 288 ATTGCGCCCGCAGTATTCTGCGGGCATGCTGTTGAGCGCTGTTTCAACCCCTCAGGC 347

Qy 122 CCCGGGCTGCGGTTGGGATCGCGGAAGCCCTCGGGGCAACACCGCTGCCCAA 181
Db 348 CC---AGCTTGGTGTGGACTC-----GCGAGTCAAAATCGCGTTCCCAA 390

Qy 182 ATACAGTGGCGTCCCGCGCAGCTTCCATTGCGTAGTCTAACACCTCGCACTGGAG 241
Db 391 ATTGATTGCGGTACGTCG-AGCTTCCATAGCTAGTAGTAAACCCCTCGTTACTGTA 449

Qy 242 AGCGCGCGGCACGCCGTAAACACCCAACTTCTGAATGTTTGACCTCGAATCAGGTAGG 301
Db 450 ATCGTCGCGGCACGCCGTAAAC-CCCAACTTCTGAATGTTTGACCTCGGATCAGGTAGG 508

Qy 302 AATACCCGCTGAAC 315
Db 509 AATACCCGCTGAAC 522

RESULT 12
US-10-773-905-5
; Sequence 5, Application US/10773905
; Publication No. US20040259121A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium subglutinans
US-10-773-905-5

Query Match 57.4%; Score 183.2; DB 20; Length 522;
Best Local Similarity 83.4%; Pred. No. 1.8e-54;
Matches 262; Conservative 0; Mismatches 33; Indels 19; Gaps 4;

Qy 2 AAAATGCGATAAGTAATGGAATTCAGGAATTCAGTAATCATCGAATCTTTTGAACGCAC 61
Db 228 AAAATGCGATAAGTAATGGAATTCAGGAATTCAGTAATCATCGAATCTTTTGAACGCAC 287

Qy 62 ATTGCGCCCGCAGTATTCTGCGGGCATGCTGTTGAGCGCTGTTTCAACCCCTCAGGC 121
Db 288 ATTGCGCCCGCAGTATTCTGCGGGCATGCTGTTGAGCGCTGTTTCAACCCCTCAGGC 347

Qy 122 CCCGGGCTGCGGTTGGGATCGCGGAAGCCCTCGGGGCAACACCGCTGCCCAA 181
Db 348 CC---AGCTTGGTGTGGACTC-----GCGAGTCAAAATCGCGTTCCCAA 390

Qy 182 ATACAGTGGCGTCCCGCGCAGCTTCCATTGCGTAGTCTAACACCTCGCACTGGAG 241
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Db 391 ATTGATTGGCGGTACGTCG-AGCTTCCATAGCGTAGTAGTAAACCCCTGTTACTGGTA 449
Qy 242 AGCGGCGCGGCACGCGTAAACACCCAACTTCTGAATTTGACCTCGAATCAGGTAGG 301
Db 450 ATCGTCGCGGCACGCGGTAAAC-CCCAACTTCTGAATTTGACCTCGGATCAGGTAGG 508
Qy 302 AATACCGGCTGAAC 315
Db 509 AATACCGGCTGAAC 522

RESULT 13
US-10-773-905-8
; Sequence 8, Application US/10773905
; Publication No. US20040259121A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,905
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; TYPE: DNA
; ORGANISM: Fusarium verticillioides (syn. F. moniliforme)
US-10-773-905-8

Query Match 57.4%; Score 183.2; DB 20; Length 522;
Best Local Similarity 83.4%; Pred. No. 1.8e-54; Indels 19; Gaps 4;
Matches 262; Conservative 0; Mismatches 33;

Qy 2 AAAATGCGATAAGTAATGTGAATTCAGTAATTCAGTGAATTCAGTGAATTCCTTTGAACGCAC 61
Db 228 AAAATGCGATAAGTAATGTGAATTCAGTGAATTCAGTGAATTCCTTTGAACGCAC 287
Qy 62 ATTGCGCGCGCAGTATTCGCGGGGCGATGCTGTTGAGCGGTATTAACACCTCAGGC 121
Db 288 ATTGCGCGCGCAGTATTCGCGGGGCGATGCTGTTGAGCGGTATTAACACCTCAGGC 347
Qy 122 CCCGGGCGCTGGCTTGGGGATCGCGGAAGCCCTCGCGGCACACGCGCTCCCCAA 181
Db 348 CC---AGCTTGGTGTGGGACTC-----GCGAGTCAAAATCGGTTCCCCAA 390
Qy 182 ATACAGTGGCGGTCCCGCGCAGCTTCATTTGCTAGTAGTGTAAACACCTCGCAACTGGAG 241
Db 391 ATTGATTGGCGGTACGTCG-AGCTTCCATAGCGTAGTAGTAAACACCTCGTTACTGGTA 449
Qy 242 AGCGGCGCGGCACGCGGTAAACACCCAACTTCTGAATTTGACCTCGAATCAGGTAGG 301
Db 450 ATCGTCGCGGCACGCGGTAAAC-CCCAACTTCTGAATTTGACCTCGGATCAGGTAGG 508
Qy 302 AATACCGGCTGAAC 315
Db 509 AATACCGGCTGAAC 522

RESULT 14
US-09-961-755A-6
; Sequence 6, Application US/09961755A
; Publication No. US20030113722A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
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; CURRENT APPLICATION NUMBER: US/09/961,755A
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 521
; TYPE: DNA
; ORGANISM: Gibberella zeae
US-09-961-755A-6

Query Match 55.3%; Score 176.4; DB 10; Length 521;
Best Local Similarity 82.2%; Pred. No. 4.8e-52;
Matches 258; Conservative 0; Mismatches 36; Indels 20; Gaps 4;

Qy 2 AAAATGCGATAAGTAATGTGAATTCAGTAATTCAGTGAATTCATCGAATCTTTGAACGCAC 61
Db 228 AAAATGCGATAAGTAATGTGAATTCAGTGAATTCAGTGAATTCATCGAATCTTTGAACGCAC 287
Qy 62 ATTGCGCGCGCAGTATTCGCGGGGCGATGCTGTTGAGCGGTATTAACACCTCAGGC 121
Db 288 ATTGCGCGCGCAGTATTCGCGGGGCGATGCTGTTGAGCGGTATTAACACCTCAGGC 347
Qy 122 CCCGGGCGCTGGCTTGGGGATCGCGGAAGCCCTCGCGGCACACGCGCTCCCCAA 181
Db 348 CC---AGCTTGGTGTGGGACTG-----CAGTCTGCTGCACTCCCCAA 389
Qy 182 ATACAGTGGCGGTCCCGCGCAGCTTCATTTGCTAGTAGTGTAAACACCTCGCAACTGGAG 241
Db 390 ATACATTGGCGGTACGTCG-AGCTTCCATAGCGTAGTAATTTACACATCGTTACTGGTA 448
Qy 242 AGCGGCGCGGCACGCGGTAAACACCCAACTTCTGAATTTGACCTCGAATCAGGTAGG 301
Db 449 ATCGTCGCGGCACGCGGTAAAC-CCCAACTTCTGAATTTGACCTCGGATCAGGTAGG 507
Qy 302 AATACCGGCTGAAC 315
Db 508 AATACCGGCTGAAC 521

RESULT 15
US-10-773-904-6
; Sequence 6, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,904
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 521
; TYPE: DNA
; ORGANISM: Gibberella zeae
US-10-773-904-6

Query Match 55.3%; Score 176.4; DB 20; Length 521;
Best Local Similarity 82.2%; Pred. No. 4.8e-52;
Matches 258; Conservative 0; Mismatches 36; Indels 20; Gaps 4;

Qy 2 AAAATGCGATAAGTAATGTGAATTCAGTAATTCAGTGAATTCATCGAATCTTTGAACGCAC 61
Db 228 AAAATGCGATAAGTAATGTGAATTCAGTGAATTCAGTGAATTCATCGAATCTTTGAACGCAC 287
Qy 62 ATTGCGCGCGCAGTATTCGCGGGGCGATGCTGTTGAGCGGTATTAACACCTCAGGC 121
Db 288 ATTGCGCGCGCAGTATTCGCGGGGCGATGCTGTTGAGCGGTATTAACACCTCAGGC 347
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QY 122 CCCCCGGCCTGGCGTTGGGATCGGCGGAAGCCCCCTGCGGGCACAAACGCCGTCGCCCAA 181
Db 348 CC---AGCTTGGTGTGGGAGCTG-----CAGTCCTGCTGCACCTGCCCAA 389
QY 182 ATACAGTGGCGGTCCCGCCGAGCTTCCATTGGTAGTAGCTAACACCTCGCACTGGAG 241
Db 390 ATACATTTGGCGGTACGTCG-AGCTTCCATAGCGTAGTAATTACACATCGTTACTGGTA 448
QY 242 AGCGCGCGGCCACGCGGTAAACACCCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 301
Db 449 ATCGTCGCGGCCACGCGGTTAAAC-CCCAACTTCTGAATGTTGACCTCGAATCAGGTAGG 507
QY 302 AATACCCGCTGAAC 315
Db 508 AATACCCGCTGAAC 521
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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 06:56:31 ; Search time 184.825 Seconds
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Title: US-10-046-955-7
Perfect score: 310
Sequence: 1 aatgcgataagtaagtga.....ggaataccgctgaaacttaa 310

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	310	100.0	310	3	US-09-423-233-7
2	306.8	99.0	2293	3	US-09-645-073-1
3	249.8	80.6	561	1	US-08-905-314A-24
4	240.2	77.5	319	3	US-09-423-233-6
5	231	74.5	583	1	US-08-652-127C-8
6	225.2	72.6	531	1	US-08-652-127C-7
7	224.2	72.3	581	1	US-08-652-127C-6
8	197.8	63.8	594	1	US-08-652-127C-5
9	187.6	60.5	546	1	US-08-887-480-96
10	187.6	60.5	546	1	US-08-905-314A-22
11	186.6	60.2	504	1	US-08-887-480-82
12	186.6	60.2	504	1	US-08-905-314A-19
13	186.6	60.2	504	2	US-08-722-187-82
14	186.6	60.2	504	5	PCT-US95-04712-82
15	185	59.7	611	3	US-08-986-727-4
16	183.2	59.1	545	1	US-08-887-480-84
17	183.2	59.1	545	1	US-08-905-314A-21
18	180.4	58.2	503	1	US-08-887-480-83
19	180.4	58.2	503	1	US-08-905-314A-20
20	180.4	58.2	503	2	US-08-722-187-83
21	180.4	58.2	503	5	PCT-US95-04712-83
22	174.2	56.2	504	4	US-09-481-293-32
23	166.2	53.6	545	2	US-08-722-187-85
24	166.2	53.6	545	5	PCT-US95-04712-85
25	163.8	52.8	608	3	US-08-986-727-3
26	139	44.8	605	3	US-08-986-727-1
27	136	43.9	365	3	US-09-423-233-3

28	136	43.9	587	1	US-08-742-023-7	Sequence 7, Appli
29	136	43.9	587	3	US-08-968-505-7	Sequence 7, Appli
30	136	43.9	617	3	US-08-986-727-2	Sequence 7, Appli
31	131.4	42.4	364	3	US-09-423-233-2	Sequence 2, Appli
32	126.6	40.8	556	3	US-09-037-990B-7	Sequence 7, Appli
33	125.2	40.4	627	1	US-08-233-608-47	Sequence 47, Appli
34	125.2	40.4	627	1	US-08-887-480-47	Sequence 47, Appli
35	125.2	40.4	627	2	US-08-722-187-47	Sequence 47, Appli
36	125.2	40.4	627	5	PCT-US95-04712-47	Sequence 47, Appli
37	125	40.3	309	3	US-09-423-233-28	Sequence 28, Appli
38	124.4	40.1	536	4	US-09-517-790-5	Sequence 5, Appli
39	124.4	40.1	556	1	US-08-887-480-85	Sequence 85, Appli
40	124.4	40.1	556	1	US-08-905-314A-23	Sequence 23, Appli
41	124.4	40.1	580	1	US-08-742-023-6	Sequence 6, Appli
42	124.4	40.1	580	3	US-08-968-505-6	Sequence 6, Appli
43	123.6	39.9	626	1	US-08-233-608-3	Sequence 3, Appli
44	123.6	39.9	626	1	US-08-887-480-3	Sequence 3, Appli
45	123.6	39.9	626	2	US-08-722-187-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-423-233-7
; Sequence 7, Application US/09423233
; Patent No. 6372430
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America as
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE REFERENCE: 03063-0341WP
; CURRENT APPLICATION NUMBER: US/09/423,233
; CURRENT FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Fusarium moniliforme
US-09-423-233-7

Query Match 100.0%; Score 310; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 5.7e-94;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	AAATCGGATAGTAATGTAATTCGAAATTCGAAATTCAGTGAATCATCGAATCTTTGAACGCACA	60
Db	1	AAATCGGATAGTAATGTAATTCGAAATTCGAAATTCAGTGAATCATCGAATCTTTGAACGCACA	60
Qy	61	TTGCGCCCGCCAGTATTCTGGCGGCGCATGCTGTTCGAGCGGTCATTTCAACCCCTCAAGCC	120
Db	61	TTGCGCCCGCCAGTATTCTGGCGGCGCATGCTGTTCGAGCGGTCATTTCAACCCCTCAAGCC	120
Qy	121	CCCGGGTTGGTGTGGGATCGGCAAGCCCTTCGCGGAAGCCGCCCGGAAATCTAGTG	180
Db	121	CCCGGGTTGGTGTGGGATCGGCAAGCCCTTCGCGGAAGCCGCCCGGAAATCTAGTG	180
Qy	181	GGGTCGTCGTCAGCTTCATTCGCTAGTAGTAATAAACCCTCGCAACTGGTACGGCGGC	240
Db	181	GGGTCGTCGTCAGCTTCATTCGCTAGTAGTAATAAACCCTCGCAACTGGTACGGCGGC	240
Qy	241	GCCCAAGCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCGC	300
Db	241	GCCCAAGCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCGC	300
Qy	301	CTGAACCTTAA	310
Db	301	CTGAACCTTAA	310

RESULT 2

US-09-645-073-1

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; Sequence 1, Application US/09645073
; Patent No. 6287800
; GENERAL INFORMATION:
; APPLICANT: Lee, May
; TITLE OF INVENTION: Production of High Titters of Gibberellins GA4 and GA7
; FILE REFERENCE: L02-01NP
; CURRENT APPLICATION NUMBER: US/09/645,073
; CURRENT FILING DATE: 2000-08-25
; PRIOR APPLICATION NUMBER: US 60/151,770
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2293
; TYPE: DNA
; ORGANISM: Gibberella fujikuroi
US-09-645-073-1

Query Match      99.0%; Score 306.8; DB 3; Length 2293;
Best Local Similarity 99.4%; Pred. No. 1.6e-92;
Matches 308; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1  AAATGCGATAAGTAATGTAATTCGAAATTCGAAATTCAGTGAATCATCGAATCTTTTGAACGCACA 60
Db      1772 AAATGCGATAAGTAATGTAATTCGAAATTCAGTGAATCATCGAATCTTTTGAACGCACA 2031

Qy      61  TTGGCGCCGCCGAGTATTCTTGGCGGGCATGCGCTGTTGAGGCGTCAATTTCAACCCCTCAAGCC 120
Db      2032 TTGGCGCCGCCGAGTATTCTTGGCGGGCATGCGCTGTTGAGGCGTCAATTTCAACCCCTCAAGCC 2091

Qy      121 CCCGGGTTTGTTGTTGGGATCGCAAGCCCTTGGCGAAGCCGCGCCCGGAAATCTAGTG 180
Db      2092 CCCGGGTTTGTTGTTGGGATCGCGAGCCCTTGGCGAAGCCGCGCCCGGAAATCTAGTG 2151

Qy      181 GCGGTCTCGTGCAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTACGCGCGC 240
Db      2152 GCGGTCTCGTGCAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTACGCGCGC 2211

Qy      241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db      2212 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 2271

Qy      301 CTGAACCTTAA 310
Db      2272 CTGAACCTTAA 2281

RESULT 3
US-08-905-314A-24
; Sequence 24, Application US/08905314A
; Patent No. 5827695
; GENERAL INFORMATION:
; APPLICANT: Beck, James J.
; TITLE OF INVENTION: DETECTION OF WHEAT FUNGAL PATHOGENS
; TITLE OF INVENTION: USING THE POLYMERASE CHAIN REACTION
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESS: No. 5827695artis Corporation Patent Department
; STREET: 3054 Cornwallis Road
; CITY: Research Triangle Park
; STATE: NC
; COUNTRY: USA
; ZIP: 20779-2257
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/905,314A
; FILING DATE:
; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timothy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: CGC 1944
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 541-8587
; TELEFAX: (919) 541-8689
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 561 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; STRAIN: Fusarium avenaceum
; INDIVIDUAL ISOLATE: 64452 and R-4045 (consensus sequence)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..30
; OTHER INFORMATION: /note= "3' end of small subunit"
; OTHER INFORMATION: rRNA gene"
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 31..181
; OTHER INFORMATION: /note= "ITS 1"
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 182..338
; OTHER INFORMATION: /note= "5.8S rRNA gene"
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 339..504
; OTHER INFORMATION: /note= "ITS 2"
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 505..561
; OTHER INFORMATION: /note= "5' end of large subunit"
; OTHER INFORMATION: rRNA gene"
; US-08-905-314A-24

Query Match      80.6%; Score 249.8; DB 1; Length 561;
Best Local Similarity 91.6%; Pred. No. 1.1e-73;
Matches 285; Conservative 1; Mismatches 23; Indels 2; Gaps 2;

Qy      1  AAATGCGATAAGTAATGTAATTCGAAATTCGAAATTCAGTGAATCATCGAATCTTTTGAACGCACA 60
Db      232 AAATGCGATAAGTAATGTAATTCGAAATTCGAGATTCAGTGAATCATCGAATCTTTTGAACGCACA 291

Qy      61  TTGGCGCCGCCGAGTATTCTTGGCGGGCATGCGCTGTTGAGGCGTCAATTTCAACCCCTCAAGCC 120
Db      292 TTGGCGCCGCCGAGTATTCTTGGCGGGCATGCGCTGTTGAGGCGTCAATTTCAACCCCTCAAGCC 351

Qy      121 CCCGGGTTTGTTGTTGGGATCGCAAGCCCTTGGCGC-AAAGCCGGCCCGGAAATCTAGT 179
Db      352 CCCGGGTTTGTTGTTGGGATCGGCTCTGCTTMYGGCGTGGCGCCCGGAAATACATT 411

Qy      180 GCGGTTCTCGCTCGAGTTCATTGCGGTAGTAGTAAACCCCTCGCAACTGGTACGGGCG 239
Db      412 GCGGTTCTCGCTCGAGTTCATTGCGGTAGTAGTAAACCCCTCGCAACTGGAAACGGGCG 471

Qy      240 CGGCCAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCC 299
Db      472 CGGCCAATGCGC-TAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCC 530

Qy      300 GCTGAACCTTAA 310
Db      531 GCTGAACCTTAA 541

RESULT 4
US-09-423-233-6
; Sequence 6, Application US/09423233
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; Patent No. 5372430
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America as
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE REFERENCE: 03063-0341WP
; CURRENT APPLICATION NUMBER: US/09/423,233
; CURRENT FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Fusarium solani
; US-09-423-233-6

Query Match          77.5%; Score 240.2; DB 3; Length 319;
Best Local Similarity 87.4%; Pred. No. 1.5e-70;
Matches 277; Conservative 0; Mismatches 33; Indels 7; Gaps 1;

QY 1 AAATGCGATAAGTAATGTGAATTCGAAATTCAGTGAATCATCGAATCTTTGAAACGCACA 60
DB 3 AAATGCGATAAGTAATGTGAATTCGAAATTCAGTGAATCATCGAATCTTTGAAACGCACA 62
QY 61 TTGCGCCCGCCAGTATTCGCGGGGCGATGCTGTTGAGGCGTCATTTCAACCCCTCAAGCC 120
DB 63 TTGCGCCCGCCAGTATTCGCGGGGCGATGCTGTTGAGGCGTCATTTCAACCCCTCAAGCC 122
QY 121 CCCGGGTTTGGTGTGGGGATCGCAAGCCCTTGGCCG-----AAGCGGCGCCGAAA 173
DB 123 CCCGGGCTGGCGTGTGGGGATCGCGGAGCCCTTGGCGGCAACAAGCCGTCCTCCCAAA 182
QY 174 TCTAGTGGCGGTCTCGTGCAGCTTCATTCGCTAGTAGTAAACCCCTCGCAACTGGTAC 233
DB 183 TACAGTGGCGGTCCCGCGCAGCTTCATTCGCTAGTAGTAAACCCCTCGCAACTGGAGA 242
QY 234 GCGGCGGGCGCAAGCGGTTAAACCCCACTTCTGAATGTTGACCTCGGATCAGGTAGGA 293
DB 243 GCGGCGGGCGCAGCGGTTAAACACCACTTCTGAATGTTGACCTCGAATCAGGTAGGA 302
QY 294 ATACCCGCTGAACCTTAA 310
DB 303 ATACCCGCTGAACCTTAA 319

RESULT 5
US-08-652-127C-8
; Sequence 8, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESSEE: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
```

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; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 583
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-652-127C-8

Query Match          74.5%; Score 231; DB 1; Length 583;
Best Local Similarity 90.4%; Pred. No. 2.3e-67;
Matches 281; Conservative 0; Mismatches 25; Indels 5; Gaps 3;

QY 1 AAATGCGATAAGTAATGTGAATTCGAAATTCAGTGAATCATCGAATCTTTGAAACGCACA 60
DB 257 AAATGCGATAAGTAATGTGAATTCGAAATTCAGTGAATCATCGAATCTTTGAAACGCACA 316
QY 61 TTGCGCCCGCCAGTATTCGCGGGGCGATGCTGTTGCGAGCGTCATTTCAACCCCTCAAGCC 120
DB 317 TTGCGCCCGCCAGTATTCGCGGGGCGATGCTGTTGCGAGCGTCATTTCAACCCCTCAAGCC 376
QY 121 CCCGGGTTTGGTGTGGGGATCGCAAGCCCTTGGGGCAAGCCGCGCCCGAAATCTAGTG 180
DB 377 CCCGGGCTTGGTGTGGGGATCGCGAGCCTCCGC-GCCCGCGCTCCCTAAATCTAGTG 435
QY 181 GCGGCTCGCTCGAGCTTCCATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGCGGCG 240
DB 436 GCGGCTCGCTCGAGCTTCCCTCTGCGTAGTAGCACACCTCGC---ACTGGGAAACAGCGC 492
QY 241 GGCCAAAGCGGTAAACCCCAACTTCTGAATG-TTGACCTCGGATCAGGTAGGAATACCC 299
DB 493 GGCCAGCGGTTAAACCCCAACTTCTGAAGTTTGACCTCGGATCAGGTAGGAATACCC 552
QY 300 GCTGAACCTTAA 310
DB 553 GCTGAACCTTAA 563

RESULT 6
US-08-652-127C-7
; Sequence 7, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESSEE: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
```

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; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 531
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
US-08-652-127C-7

Query Match      72.6%; Score 225.2; DB 1; Length 531;
Best Local Similarity 88.8%; Pred. No. 2e-65;
Matches 277; Conservative 0; Mismatches 30; Indels 5; Gaps 3;

QY 1 AAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 60
Db 203 AAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 262
QY 61 TTGGCGCCCGCCAGTATTCTGGCGGGCATGCTGTTGAGGCGTCAATTTCAACCCCTCAAGCC 120
Db 263 TTGGCGCCCGCCAGTATTCTGGCGGGCATGCTGTTGAGGCGTCAATTTCAACCCCTCAAGCC 322
QY 121 CCCGGGTTTGGTGTGGGATCGGAAG-CCCTTGGCGGCAAGCCGCGCCCGCAAAATCTAGT 179
Db 323 CCCGGGTTTGGTGTGGGATCGGAAG-CCCTTGGCGGCAAGCCGCGCCCGCAAAATCTAGT 382
QY 180 GGCGGTCTCGCTGAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGTTAGCGCGCG 239
Db 383 GGCGGTCTCGCTGAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGTTAGCGCGCG 439
QY 240 CGGCAAGCCGTTAAACCCCACTTCTG-AAATGTTGACCTCGGATCAGGTAGGAATACC 298
Db 440 CGGCAAGCCGTTAAACCCCACTTCTG-AAATGTTGACCTCGGATCAGGTAGGAATACC 499
QY 299 CGCTGAACCTTAA 310
Db 500 CGCTGAACCTTAA 511

RESULT 7
US-08-652-127C-6
; Sequence 6, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESSEE: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24, 034
; REFERENCE/DOCKET NUMBER: 1898
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 581
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
US-08-652-127C-5

; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-652-127C-6

Query Match      72.3%; Score 224.2; DB 1; Length 581;
Best Local Similarity 88.5%; Pred. No. 4.4e-65;
Matches 276; Conservative 1; Mismatches 30; Indels 5; Gaps 3;

QY 1 AAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 60
Db 253 AAATGCGATAAGTAATGTAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 312
QY 61 TTGGCGCCCGCCAGTATTCTGGCGGGCATGCTGTTGAGGCGTCAATTTCAACCCCTCAAGCC 120
Db 313 TTGGCGCCCGCCAGTATTCTGGCGGGCATGCTGTTGAGGCGTCAATTTCAACCCCTCAAGCC 372
QY 121 CCCGGGTTTGGTGTGGGATCGGAAG-CCCTTGGCGGCAAGCCGCGCCCGCAAAATCTAGT 179
Db 373 CCCGGGTTTGGTGTGGGATCGGAAG-CCCTTGGCGGCAAGCCGCGCCCGCAAAATCTAGT 432
QY 180 GGCGGTCTCGCTGAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGTTAGCGCGCG 239
Db 433 GGCGGTCTCGCTGAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGTTAGCGCGCG 489
QY 240 CGGCAAGCCGTTAAACCCCACTTCTG-AAATGTTGACCTCGGATCAGGTAGGAATACC 298
Db 490 TGCCACAGCGGTTAAACCCCACTTCTGAAAGGTTGACCTCGGATCAGGTAGGAATACC 549
QY 299 CGCTGAACCTTAA 310
Db 550 CGCTGAACCTTAA 561

RESULT 8
US-08-652-127C-5
; Sequence 5, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESSEE: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24, 034
; REFERENCE/DOCKET NUMBER: 1898
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 594
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
US-08-652-127C-5
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Query Match 63.8%; Score 197.8; DB 1; Length 594;
 Best Local Similarity 85.0%; Pred. No. 3.2e-56;
 Matches 271; Conservative 0; Mismatches 37; Indels 11; Gaps 4;

QY 1 AATGCGATAGTAATGTAATGCAAAATTCAGTGAATCATCATGAAATCTTTGAACGCACA 60
 DB 258 AATGCGATAGTAATGTAATGCAAAATTCAGTGAATCATCATGAAATCTTTGAACGCACA 317

QY 61 TTGCGCGCCGACGATTTCTGCGGGGCGATGCTCTTTCGAGCGTCAATTTCAACCCCTCAAGCC 120
 DB 318 TTGCGCGCCGACGATTTCTGCGGGGCGATGCTCTTTCGAGCGTCAATTTCAACCCCTCAAGCA 377

QY 121 CC-----CGGTTTGGTGTGGGATCGGCAAG-----CCCTTGGCGGAAGCGGCCCGCGAA 172
 DB 378 CCTTCGGGAGCTGGTGTGGGATCGGCAAGCGGCTCTCCGGGTGCGCGCGCTCCCGCAA 437

QY 173 ATCTAGTGGCGGTCTCGCTGACGTTCCATTGCTAGTAGTAAACCCCTCGCAACTGGTA 232
 DB 438 ATCTAGTGGCGGTCTCGCTGACGTTCCATTGCTAGTAGTAAACCCCTCGCAACTGGAGT 495

QY 233 CGCGCGCGCGCCGACGCGGTAAACCCCGCAACTTTCTGAAT-GTTGACCTCGGATCAGGTAG 291
 DB 496 CTGCGTGGCGGCGGCGGTAAACCCCGCAACTTTTCTGCTGAGTAAATCACTCGAATCAGGTAG 555

QY 292 GAATACCGCTGAACCTAA 310
 DB 556 GACTACCGCTGAACCTAA 574

RESULT 9

US-08-887-480-96

; Sequence 96, Application US/08887480

; Patent No. 5814453

; GENERAL INFORMATION:

; APPLICANT: Beck, James J

; TITLE OF INVENTION: Detection of Fungal Pathogens Using the

; POLYMERASE CHAIN REACTION

; NUMBER OF SEQUENCES: 96

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: No. 5814453artis Corporation

; STREET: 520 White Plains Road

; CITY: Tarrytown

; STATE: NY

; COUNTRY: USA

; ZIP: 10591

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/887,480

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/722,187

; FILING DATE: 15-OCT-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Meigs, J. Timothy

; REGISTRATION NUMBER: 38,241

; REFERENCE/DOCKET NUMBER: CGC 1739/PCT/CIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 919-541-8587

; TELEFAX: 919-541-9689

; INFORMATION FOR SEQ ID NO: 96:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 546 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

; ORIGINAL SOURCE:

; STRAIN: Fusarium poae

; INDIVIDUAL ISOLATE: T-427, T-534, and T-756 (consensus
 ; INDIVIDUAL ISOLATE: sequence)

; IMMEDIATE SOURCE:

; CLONE: PCRpoaeT427(1-2), PCRpoaeT534(2-2), and
 ; CLONE: PCRpoaeT756(3-1)

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: 1..30

; OTHER INFORMATION: /note= "3' end of small subunit
 ; OTHER INFORMATION: rRNA gene"

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: 31..180

; OTHER INFORMATION: /note= "ITS 1"

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: 181..337

; OTHER INFORMATION: /note= "5.8S rRNA gene"

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: 338..489

; OTHER INFORMATION: /note= "ITS 2"

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: 490..546

; OTHER INFORMATION: /note= "5' end of large subunit
 ; OTHER INFORMATION: rRNA gene"

; US-08-887-480-96

Query Match

60.5%; Score 187.6; DB 1; Length 546;

Best Local Similarity 84.5%; Pred. No. 8.1e-53;

Matches 262; Conservative 0; Mismatches 34; Indels 14; Gaps 4;

QY 1 AAATCGGATAAGTAATGTAATGCAAAATTCAGTGAATCATCATGAAATCTTTGAACGCACA 60

DB 231 AAATCGGATAAGTAATGTAATGCAAAATTCAGTGAATCATCATGAAATCTTTGAACGCACA 290

QY 61 TTGCGCGCGCCGACGATTTCTGCGGGGCGATGCTCTTTCGAGCGTCAATTTCAACCCCTCAAGCC 120

DB 291 TTGCGCGCGCCGACGATTTCTGCGGGGCGATGCTCTTTCGAGCGTCAATTTCAACCCCTCAAGCC 350

QY 121 CCCGGGTTGGTGTGGGATCGGCAAGCCCTTTCGCGGCAAGCCCGCCCGGAAATCTAGTG 180

DB 351 C---AGCTTGGTGTGGG-----ATCTGTGTGCAACACACAGATGCCCAAAATTCATTTG 398

QY 181 GCGGTCTCGCTCGAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTACGGCGGC 240

DB 399 GCGGTACAG-TCGAGCTTCCATAGCGTAGTAATTTACACATCGTTACTGGTAAATCGTCGC 457

QY 241 GCGCAAGCGGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300

DB 458 GCGCACGCGGTTAA-CCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 516

QY 301 CTGAACCTTAA 310

DB 517 CTGAACCTTAA 526

RESULT 10

US-08-905-314A-22

; Sequence 22, Application US/08905314A

; Patent No. 5827695

; GENERAL INFORMATION:

; APPLICANT: Beck, James J.

; TITLE OF INVENTION: DETECTION OF WHEAT FUNGAL PATHOGENS

; TITLE OF INVENTION: USING THE POLYMERASE CHAIN REACTION

; NUMBER OF SEQUENCES: 24

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: No. 5827695artis Corporation Patent Department

; STREET: 3054 Cornwallis Road

; CITY: Research Triangle Park

; STATE: NC

; COUNTRY: USA


```
; OTHER INFORMATION: /note= "ITS 2"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 473..504
; OTHER INFORMATION: /note= "5' end of large subunit"
; OTHER INFORMATION: rRNA gene"
US-08-887-480-82

Query Match 60.2%; Score 186.6; DB 1; Length 504;
Best Local Similarity 82.6%; Pred. No. 1.7e-52;
Matches 252; Conservative 1; Mismatches 40; Indels 12; Gaps 3;

QY 1 AATGCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 60
Db 212 AATGCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 271

QY 61 TTGCGCGCGGCAGTATTCTGGCGGCATGCTGTCGAGCGTCATTTCACCCCTCAAGCC 120
Db 272 TTGCGCGCGGCAGTATTCTGGCGGCATGCTGTCGAGCGTCATTTCACCCCTCAAGCC 331

QY 121 CCGCGGTTTGGTGTGGGGATCGGCAAGCCCTTTGCGGCAAGCGCGCCGCAAAATCTAGTG 180
Db 332 C---AGCTTGGTGTGGG-----AGCTGCAGTCTGCTGCACCTCCCAATACATTG 380

QY 181 GCGGTCTGCTGCGAGCTTCCTCAATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGGCGCG 240
Db 381 GCGGTCAAGTCGAGCTTCCTCAATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGGCGCG 440

QY 241 GCGCAAGCGGTAAACCCCACTCTGATGTTGACCTCGGATCAGTAGGGAATACCCG 300
Db 441 GCGYACGCGGTAAACCCCACTCTGATGTTGACCTCGGATCAGTAGGGAATACCCG 499

QY 301 CTGAA 305
Db 500 CTGAA 504

RESULT 12
US-08-905-314A-19
; Sequence 19, Application US/08905314A
; Patent No. 5827695
; GENERAL INFORMATION:
; APPLICANT: Beck, James J.
; TITLE OF INVENTION: DETECTION OF WHEAT FUNGAL PATHOGENS
; TITLE OF INVENTION: USING THE POLYMERASE CHAIN REACTION
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5827695artis Corporation Patent Department
; STREET: 3054 Cornwalis Road
; CITY: Research Triangle Park
; STATE: NC
; COUNTRY: USA
; ZIP: 20779-2257
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/905,314A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timothy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: CGC 1944
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 541-8587
; TELEFAX: (919) 541-8689
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 504 base pairs
; TYPE: nucleic acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: Fusarium culmorum
; INDIVIDUAL ISOLATE: R-5106, R-5126, and R-5146
; INDIVIDUAL ISOLATE: (consensus sequence)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..12
; OTHER INFORMATION: /note= "3' end of small subunit"
; OTHER INFORMATION: rRNA gene"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 13..161
; OTHER INFORMATION: /note= "ITS 1"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 162..318
; OTHER INFORMATION: /note= "5.8S rRNA gene"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 319..472
; OTHER INFORMATION: /note= "ITS 2"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 473..504
; OTHER INFORMATION: /note= "5' end of large subunit"
; OTHER INFORMATION: rRNA gene"
US-08-905-314A-19

Query Match 60.2%; Score 186.6; DB 1; Length 504;
Best Local Similarity 82.6%; Pred. No. 1.7e-52;
Matches 252; Conservative 1; Mismatches 40; Indels 12; Gaps 3;

QY 1 AATGCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 60
Db 212 AATGCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 271

QY 61 TTGCGCGCGGCAGTATTCTGGCGGCATGCTGTCGAGCGTCATTTCACCCCTCAAGCC 120
Db 272 TTGCGCGCGGCAGTATTCTGGCGGCATGCTGTCGAGCGTCATTTCACCCCTCAAGCC 331

QY 121 CCGCGGTTTGGTGTGGGGATCGGCAAGCCCTTTGCGGCAAGCGCGCCGCAAAATCTAGTG 180
Db 332 C---AGCTTGGTGTGGG-----AGCTGCAGTCTGCTGCACCTCCCAATACATTG 380

QY 181 GCGGTCTGCTGCGAGCTTCCTCAATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGGCGCG 240
Db 381 GCGGTCAAGTCGAGCTTCCTCAATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGGCGCG 440

QY 241 GCGCAAGCGGTAAACCCCACTCTGATGTTGACCTCGGATCAGTAGGGAATACCCG 300
Db 441 GCGYACGCGGTAAACCCCACTCTGATGTTGACCTCGGATCAGTAGGGAATACCCG 499

QY 301 CTGAA 305
Db 500 CTGAA 504

RESULT 13
US-08-722-187-82
; Sequence 82, Application US/08722187
; Patent No. 5955274
; GENERAL INFORMATION:
; APPLICANT: Ligon, James M
; APPLICANT: Beck, James J
; TITLE OF INVENTION: Detection of Fungal Pathogens Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ciba-Geigy Corporation
; STREET: 7 Skyline Drive
```

APPLICANT: Beck, James J
TITLE OF INVENTION: Detection of Fungal Pathogens Using the
TITLE OF INVENTION: Polymerase Chain Reaction
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ciba-Geigy Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/722,187
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/233,608
FILING DATE: 04-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Walsh, Andrea C.
REGISTRATION NUMBER: 34,988
REFERENCE/DOCKET NUMBER: CGC 1739
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8666
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 504 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..504
OTHER INFORMATION: /note= "DNA sequence for the
OTHER INFORMATION: internal transcribed spacer region of Fusarium culmorum
US-08-722-187-82

Query Match 60.2%; Score 186.6; DB 2; Length 504;
Best Local Similarity 82.6%; Pred. No. 1.7e-52;
Matches 252; Conservative 1; Mismatches 40; Indels 12; Gaps 3;
Qy 1 AAATGCGATAAGTAATGTGAATTCGAAATTCAGTGAATCATCGAATCTTTGAACGCACA 60
Db 212 AAATGCGATAAGTAATGTGAATTCGAGATTTCAGTGAATCATCGAATCTTTGAACGCACA 271
Qy 61 TTGCGCCCGCCAGTATTTCTGGCGGGCATGCTGTTTCGAGCGTCAATTTCAACCCCTCAAGCC 120
Db 272 TTGCGCCCGCCAGTATTTCTGGCGGGCATGCTGTTTCGAGCGTCAATTTCAACCCCTCAAGCC 331
Qy 121 CCCGGGTTTGGTCTTGGGGATCGGCAAGCCCTTTCGCGCAAGCCGCGCCCGAAATCTAGTG 180
Db 332 C---AGCTTGGTGTGGG-----AGCTGCAGTCTCTGTCGACCTCCCAATAATACATTG 380
Qy 181 GCGGTCTCGTGCAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTAGCGCGCGC 240
Db 381 GCGGTACGTCGRAGCTTCCATAGCGTAGTAAATTTACATATCGTTACTGTAATCGTCGC 440
Qy 241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 441 GGCYACGCCGTTAAA-CCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 499
Qy 301 CTGAA 305
Db 500 CTGAA 504

RESULT 14
PCT-US95-04712-82
; Sequence 82, Application PC/TUS9504712
; GENERAL INFORMATION:
; APPLICANT: Ligon, James M

APPLICANT: Beck, James J
TITLE OF INVENTION: Detection of Fungal Pathogens Using the
TITLE OF INVENTION: Polymerase Chain Reaction
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ciba-Geigy Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04712
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/233,608
FILING DATE: 04-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Walsh, Andrea C.
REGISTRATION NUMBER: 34,988
REFERENCE/DOCKET NUMBER: CGC 1739
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8666
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 504 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..504
OTHER INFORMATION: /note= "DNA sequence for the
OTHER INFORMATION: internal transcribed spacer region of Fusarium culmorum
PCT-US95-04712-82

Query Match 60.2%; Score 186.6; DB 5; Length 504;
Best Local Similarity 82.8%; Pred. No. 1.7e-52;
Matches 252; Conservative 1; Mismatches 40; Indels 12; Gaps 3;
Qy 1 AAATGCGATAAGTAATGTGAATTCGAAATTCAGTGAATCATCGAATCTTTGAACGCACA 60
Db 212 AAATGCGATAAGTAATGTGAATTCGAGATTTCAGTGAATCATCGAATCTTTGAACGCACA 271
Qy 61 TTGCGCCCGCCAGTATTTCTGGCGGGCATGCTGTTTCGAGCGTCAATTTCAACCCCTCAAGCC 120
Db 272 TTGCGCCCGCCAGTATTTCTGGCGGGCATGCTGTTTCGAGCGTCAATTTCAACCCCTCAAGCC 331
Qy 121 CCCGGGTTTGGTCTTGGGGATCGGCAAGCCCTTTCGCGCAAGCCGCGCCCGAAATCTAGTG 180
Db 332 C---AGCTTGGTGTGGG-----AGCTGCAGTCTCTGTCGACCTCCCAATAATACATTG 380
Qy 181 GCGGTCTCGTGCAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTAGCGCGCGC 240
Db 381 GCGGTACGTCGRAGCTTCCATAGCGTAGTAAATTTACATATCGTTACTGTAATCGTCGC 440
Qy 241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 441 GGCYACGCCGTTAAA-CCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 499
Qy 301 CTGAA 305
Db 500 CTGAA 504

Search completed: October 23, 2005, 16:07:06
Job time : 185.825 secs

RESULT 15
US-08-986-727-4
; Sequence 4, Application US/08986727
; Patent No. 6080543
; GENERAL INFORMATION:
; APPLICANT: ENGEL, Stacia R.
; APPLICANT: DESCENZO, Richard A.
; APPLICANT: IRELAN, Nancy A.
; TITLE OF INVENTION: DETECTION OF FUNGAL PATHOGENS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, L.L.P.
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/986,727
; FILING DATE: 08-DEC-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ekstrom, Richard C.
; REGISTRATION NUMBER: 37,027
; REFERENCE/DOCKET NUMBER: 009773-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 611 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-986-727-4

Query Match 59.7%; Score 185; DB 3; Length 611;
Best Local Similarity 83.1%; Pred. No. 6.3e-52;
Matches 260; Conservative 0; Mismatches 45; Indels 8; Gaps 4;

QY 1 AAATCGGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTGAAACGCACA 60
Db 283 AAATCGGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTGAAACGCACA 342

QY 61 TTGCGCCGCCAGTATTCTGGCGGGCATGCCCTGTTTCGAGCGTCATTTCACCCCTCAAGCC 120
Db 343 TTGCGCCCTCTGCTATTTCGGAGGGCATGCTGTTTCGAGCGTCATTTCACCCCTCAAG-- 400

QY 121 CCCGGGTTTGGTGTGGGATCGCAAGCCCTTGGCGAAGCGCGCCGCGAAATCTAGTG 180
Db 401 -CCTGGCTTGGTGTGGGCACTGTCTCCCGGGGAGCAGGCCCTGAAATCCAGTG 459

QY 181 GCGGTCCTGCTCAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTG--GTACGCGGC 238
Db 460 GCGAGCTGCG--CAGGACCCCGAGCGCAGTAGTTAAACCTCGCTCCGGAGGCCCTGCGC 517

QY 239 GCGGCCNAGCCCTTAACCCCACTTCTGAATG-TTGACCTCGGATCAGGTAGGAATAC 297
Db 518 GTGCGCCTGCCCTTAACCCCACTTCTGAAGTTTGACCTCGGATCAGGTAGGAATAC 577

QY 298 CCGCTGAACCTTAA 310
Db 578 CCGCTGAACCTTAA 590

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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 15:20:46 ; Search time 1340.32 Seconds
(without alignments)
1907.926 Million cell updates/sec

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Perfect score: 310
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9772231 seqs, 4124568258 residues
Total number of hits satisfying chosen parameters: 19544462

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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11:	/cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:
12:	/cgn2_6/ptodata/2/pubpna/US09D_PUBCOMB.seq:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	310	100.0	310	15	US-10-046-955-7 Sequence 7, Appli
2	302.8	97.7	534	10	US-09-961-755A-7 Sequence 7, Appli
3	302.8	97.7	534	20	US-10-773-904-7 Sequence 7, Appli
4	302.8	97.7	534	20	US-10-773-904-7 Sequence 7, Appli
5	240.2	77.5	319	15	US-10-046-955-6 Sequence 6, Appli
6	233.4	75.3	552	21	US-10-829-661-5 Sequence 5, Appli
7	233.4	75.3	552	21	US-10-672-300-5 Sequence 5, Appli

8	194.4	62.7	522	10	US-09-961-755A-5 Sequence 5, Appli
9	194.4	62.7	522	10	US-09-961-755A-8 Sequence 8, Appli
10	194.4	62.7	522	10	US-10-773-904-5 Sequence 5, Appli
11	194.4	62.7	522	20	US-10-773-904-8 Sequence 8, Appli
12	194.4	62.7	522	20	US-10-773-905-5 Sequence 5, Appli
13	194.4	62.7	522	20	US-10-773-905-8 Sequence 8, Appli
c 14	181	58.4	780	20	US-10-425-115-137730 Sequence 137730,
15	179.2	57.8	521	10	US-09-961-755A-6 Sequence 6, Appli
16	179.2	57.8	521	20	US-10-773-904-6 Sequence 6, Appli
17	179.2	57.8	521	20	US-10-773-905-6 Sequence 6, Appli
18	138	44.5	596	21	US-10-829-661-1 Sequence 1, Appli
19	138	44.5	596	21	US-10-672-300-1 Sequence 1, Appli
20	136.2	43.9	652	16	US-10-121-740-2 Sequence 2, Appli
21	136.2	43.9	652	19	US-10-623-432-2 Sequence 2, Appli
22	136.2	43.9	652	24	US-11-131-659-2 Sequence 2, Appli
23	136	43.9	365	15	US-10-046-955-3 Sequence 3, Appli
24	135.4	43.7	528	22	US-10-757-093-29 Sequence 29, Appli
25	131.4	42.4	364	15	US-10-046-955-2 Sequence 2, Appli
26	125	40.3	309	15	US-10-046-955-28 Sequence 28, Appli
27	124.6	40.2	641	9	US-09-766-173C-4 Sequence 4, Appli
28	124.2	40.1	650	16	US-10-121-740-4 Sequence 4, Appli
29	124.2	40.1	650	19	US-10-623-432-4 Sequence 4, Appli
30	124.2	40.1	650	24	US-11-131-659-4 Sequence 4, Appli
31	123.2	39.7	365	15	US-10-046-955-5 Sequence 5, Appli
32	121.4	39.2	577	22	US-10-757-093-28 Sequence 28, Appli
33	120.2	38.8	618	9	US-09-766-173C-5 Sequence 5, Appli
34	111.6	36.0	343	15	US-10-046-955-27 Sequence 27, Appli
35	111.6	36.0	344	15	US-10-046-955-26 Sequence 26, Appli
36	110.4	35.6	377	9	US-09-961-663-14 Sequence 14, Appli
37	110.4	35.6	377	9	US-09-961-663-15 Sequence 15, Appli
38	110.4	35.6	377	9	US-09-961-663-16 Sequence 16, Appli
39	110.4	35.6	377	9	US-09-961-663-19 Sequence 19, Appli
40	110	35.5	466	17	US-10-356-320-1 Sequence 1, Appli
41	108.8	35.1	336	15	US-10-046-955-29 Sequence 29, Appli
42	108.4	35.0	534	9	US-09-961-663-17 Sequence 17, Appli
43	107.8	34.8	346	15	US-10-046-955-25 Sequence 25, Appli
44	107.2	34.6	346	15	US-10-046-955-24 Sequence 24, Appli
45	107.2	34.6	540	9	US-09-961-663-18 Sequence 18, Appli

ALIGNMENTS

RESULT 1

US-10-046-955-7
; Sequence 7, Application US/10046955
; Publication No. US20030129600A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as Represented by the
; APPLICANT: Secretary of the Department of Health and Human Services, Centers for Di
; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Aidorevich, Liliana
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; TITLE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Fusarium moniliforme
US-10-046-955-7

Query Match 100.0%; Score 310; DB 15; Length 310;
Best Local Similarity 100.0%; Pred. No. 2.1e-102;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATGCGGATAGTAATGTGAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 60
Db 1 AATGCGGATAGTAATGTGAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 60

Qy 61 TTGCGCCCGCCAGATTTCTGCGGGGCATGCGCTGTTGAGCGGTCAATTTCAACCCCTCAAGCC 120
Db 61 TTGCGCCCGCCAGATTTCTGCGGGGCATGCGCTGTTGAGCGGTCAATTTCAACCCCTCAAGCC 120

Qy 121 CCCGGGTTTGGTGTGGGATCGCGAAGCCCTTCGCGCAAGCCGCGCCCGGAAATCTAGTG 180
Db 121 CCCGGGTTTGGTGTGGGATCGCGAAGCCCTTCGCGCAAGCCGCGCCCGGAAATCTAGTG 180

Qy 181 GCGGTCTCGCTGCAGCTTCCATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGCGGCG 240
Db 181 GCGGTCTCGCTGCAGCTTCCATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGCGGCG 240

Qy 241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300

Qy 301 CTGAACCTAA 310
Db 301 CTGAACCTAA 310

RESULT 2
US-09-961-755A-7
; Sequence 7, Application US/09961755A
; Publication No. US20030113722A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/09/961,755A
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-09-961-755A-7

Query Match 97.7%; Score 302.8; DB 10; Length 534;
Best Local Similarity 99.3%; Pred. No. 1.1e-99;
Matches 304; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AATGCGGATAGTAATGTGAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 60
Db 229 AATGCGGATAGTAATGTGAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 288

Qy 61 TTGCGCCCGCCAGATTTCTGCGGGGCATGCGCTGTTGAGCGGTCAATTTCAACCCCTCAAGCC 120
Db 289 TTGCGCCCGCCAGATTTCTGCGGGGCATGCGCTGTTGAGCGGTCAATTTCAACCCCTCAAGCC 348

Qy 121 CCCGGGTTTGGTGTGGGATCGCGAAGCCCTTCGCGCAAGCCGCGCCCGGAAATCTAGTG 180
Db 349 CCCGGGTTTGGTGTGGGATCGCGAAGCCCTTCGCGCAAGCCGCGCCCGGAAATCTAGTG 408

Qy 181 GCGGTCTCGCTGCAGCTTCCATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGCGGCG 240
Db 409 GCGGTCTCGCTGCAGCTTCCATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGCGGCG 468

Qy 241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 469 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 528

Qy 301 CTGAAC 306
Db 529 CTGAAC 534

RESULT 3
US-10-773-904-7
; Sequence 7, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,904
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-904-7

Query Match 97.7%; Score 302.8; DB 20; Length 534;
Best Local Similarity 99.3%; Pred. No. 1.1e-99;
Matches 304; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AATGCGGATAGTAATGTGAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 60
Db 229 AATGCGGATAGTAATGTGAATTCAGAAATTCAGTGAATCATCGAAATCTTTGAACGCACA 288

Qy 61 TTGCGCCCGCCAGATTTCTGCGGGGCATGCGCTGTTGAGCGGTCAATTTCAACCCCTCAAGCC 120
Db 289 TTGCGCCCGCCAGATTTCTGCGGGGCATGCGCTGTTGAGCGGTCAATTTCAACCCCTCAAGCC 348

Qy 121 CCCGGGTTTGGTGTGGGATCGCGAAGCCCTTCGCGCAAGCCGCGCCCGGAAATCTAGTG 180
Db 349 CCCGGGTTTGGTGTGGGATCGCGAAGCCCTTCGCGCAAGCCGCGCCCGGAAATCTAGTG 408

Qy 181 GCGGTCTCGCTGCAGCTTCCATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGCGGCG 240
Db 409 GCGGTCTCGCTGCAGCTTCCATTCGCTAGTAGTAAACCCCTCGCAACTGGTACGCGGCG 468

Qy 241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 469 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 528

Qy 301 CTGAAC 306
Db 529 CTGAAC 534

RESULT 4
US-10-773-905-7
; Sequence 7, Application US/10773905
; Publication No. US20040259121A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,905
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0

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; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-905-7

Query Match      97.7%; Score 302.8; DB 20; Length 534;
Best Local Similarity 99.3%; Pred. No. 1.1e-99;
Matches 304; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGCGATAAGTAATGTAATGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 60
DB 229 AAATGCGATAAGTAATGTAATGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 288

QY 61 TTGCGCCCGCCAGTATTCTGCGGGGATCGGCAAGCCCTTGGCGGC-----AAGCGGCGCCGAAA 173
DB 289 TTGCGCCCGCCAGTATTCTGCGGGGATCGGCAAGCCCTTGGCGGC-----AAGCGGCGCCGAAA 182

QY 121 CCGGGTTTGGTGTGGGATCGGCAAGCCCTTGGCGGC-----AAGCGGCGCCGAAA 173
DB 349 CCGGGTTTGGTGTGGGATCGGCAAGCCCTTGGCGGC-----AAGCGGCGCCGAAA 182

QY 181 GCGGTCTCGCTCGAGCTTCATGCTAGTAAACCTTCGCACTGCTAGCGGCGC 240
DB 409 GCGGTCTCGCTCGAGCTTCATGCTAGTAAACCTTCGCACTGCTAGCGGCGC 468

QY 241 GCGCAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
DB 469 GCGCAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 528

QY 301 CTGAAC 306
DB 529 CTGAAC 534

RESULT 5
US-10-046-955-6
; Sequence 6, Application US/10046955
; Publication No. US20030129600A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as Represented by the
; APPLICANT: Secretary of the Department of Health and Human Services, Centers for Dis
; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Aidorevich, Lilianna
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 6
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Fusarium solani
US-10-046-955-6

Query Match      77.5%; Score 240.2; DB 15; Length 319;
Best Local Similarity 87.4%; Pred. No. 7.2e-77;
Matches 277; Conservative 0; Mismatches 33; Indels 7; Gaps 1;

QY 1 AAATGCGATAAGTAATGTAATGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 60
DB 3 AAATGCGATAAGTAATGTAATGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 62

; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-905-7

Query Match      97.7%; Score 302.8; DB 20; Length 534;
Best Local Similarity 99.3%; Pred. No. 1.1e-99;
Matches 304; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGCGATAAGTAATGTAATGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 60
DB 229 AAATGCGATAAGTAATGTAATGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 288

QY 61 TTGCGCCCGCCAGTATTCTGCGGGGATCGGCAAGCCCTTGGCGGC-----AAGCGGCGCCGAAA 173
DB 289 TTGCGCCCGCCAGTATTCTGCGGGGATCGGCAAGCCCTTGGCGGC-----AAGCGGCGCCGAAA 182

QY 121 CCGGGTTTGGTGTGGGATCGGCAAGCCCTTGGCGGC-----AAGCGGCGCCGAAA 173
DB 349 CCGGGTTTGGTGTGGGATCGGCAAGCCCTTGGCGGC-----AAGCGGCGCCGAAA 182

QY 181 GCGGTCTCGCTCGAGCTTCATGCTAGTAAACCTTCGCACTGCTAGCGGCGC 240
DB 409 GCGGTCTCGCTCGAGCTTCATGCTAGTAAACCTTCGCACTGCTAGCGGCGC 468

QY 241 GCGCAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
DB 469 GCGCAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 528

QY 301 CTGAAC 306
DB 529 CTGAAC 534

RESULT 6
US-10-829-661-5
; Sequence 5, Application US/10829661
; Publication No. US20050009051A1
; GENERAL INFORMATION:
; APPLICANT: HAN, XIANG-YANG
; APPLICANT: TARRAND, JEFFREY J.
; APPLICANT: PHAM, AUDREY S.
; APPLICANT: MAY, GREGORY S.
; TITLE OF INVENTION: DIAGNOSIS OF MOULD INFECTION
; FILE REFERENCE: UTSC865US
; CURRENT APPLICATION NUMBER: US/10/829,661
; PRIOR FILING DATE: 2004-04-21
; PRIOR APPLICATION NUMBER: 10/672,300
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/414,008
; PRIOR FILING DATE: 2002-09-27
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 552
; TYPE: DNA
; ORGANISM: Fusarium sp.
US-10-829-661-5

Query Match      75.3%; Score 233.4; DB 21; Length 552;
Best Local Similarity 88.0%; Pred. No. 2.8e-74;
Matches 279; Conservative 0; Mismatches 31; Indels 7; Gaps 2;

QY 1 AAATGCGATAAGTAATGTAATGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 60
DB 236 AAACCGGATAAGTAATGTAATGCAAAATTCAGTGAATCATCGAATCTTTGAACGCACA 295

QY 61 TTGCGCCCGCCAGTATTCTGCGGGGATCGGCAAG-----CCCTTGGCGGCAAGCGGCGCCGAAAATC 175
DB 296 TTGCGCCCGCCAGTATTCTGCGGGGATCGGCAAG-----CCCTTGGCGGCAAGCGGCGCCGAAAATC 175

QY 121 CCGGGTTTGGTGTGGGATCGGCAAG-----CCCTTGGCGGCAAGCGGCGCCGAAAATC 175
DB 356 CCGGGTTTGGTGTGGGATCGGCAAG-----CCCTTGGCGGCAAGCGGCGCCGAAAATC 415

QY 176 TAGTGGCGGTCTCGCTCGAGCTTCATGCGTAGTAGTAAACCTTCGCACTGCTAGCG 235
DB 416 CAGTGGCGGTCTCGCTCGAGCTTCATGCGTAGTAGTAAACCTTCGCACTGCTAGCG 475

QY 236 GCGCGGGGCAAGCCGCTTAAA--CCCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGA 293
DB 476 GCGCGGGGCAAGCCGCTTAAA--CCCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGA 535

QY 294 ATACCCGCTGAACCTTAA 310
DB 303 ATACCCGCTGAACCTTAA 319
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Db 536 ATACCCGCTGAACCTAA 552
Query Match 75.3%; Score 233.4; DB 21; Length 552;
Best Local Similarity 88.0%; Pred. No. 2.8e-74;
Matches 279; Conservative 0; Mismatches 31; Indels 7; Gaps 2;

RESULT 7
US-10-672-300-5
; Sequence 5, Application US/10672300
; Publication No. US20050048509A1
; GENERAL INFORMATION:
; APPLICANT: HAN, XIANG-YANG
; APPLICANT: TARRAND, JEFFREY J.
; TITLE OF INVENTION: DIAGNOSIS OF INVASIVE MOLD INFECTION
; FILE REFERENCE: UTXC:766US
; CURRENT APPLICATION NUMBER: US/10/672,300
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/414,008
; PRIOR FILING DATE: 2002-09-27
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 552
; TYPE: DNA
; ORGANISM: Fusarium sp.
US-10-672-300-5

Query Match 75.3%; Score 233.4; DB 21; Length 552;
Best Local Similarity 88.0%; Pred. No. 2.8e-74;
Matches 279; Conservative 0; Mismatches 31; Indels 7; Gaps 2;

Qy 1 AAATGCGATAAGTAATGTAATTGCAAAATTCAGTGAATCATCGAAATCTTTTGAACGCACA 60
Db 236 AAACGCGATAAGTAATGTAATTGCAAAATTCAGTGAATCATCGAAATCTTTTGAACGCACA 295
Qy 61 TTGCGCGCGCCAGTATTCTGCGGGGCATGCTTTCAGCGGTCAATTTCAACCCCTCAAGCC 120
Db 296 TTGCGCGCGCCAGTATTCTGCGGGGCATGCTTTCAGCGGTCAATTTCAACCCCTCAAGCC 355
Qy 121 CCGGGGTTTGGTGTGGGGATCGGCAAG----CCCTTGGCGCAAGCGCGCCCGGAATC 175
Db 356 CCGGGGCTTGGTGTGGGGATCGTTCGAGCCCTTCGGGGCACACGCGTCCGCCAAT 415
Qy 176 TAGTGGCGGTCTCGCTGCAGCTTCCATTTGGGTAGTAGTAAACCCCTCGCAACTGGTACGC 235
Db 416 CAGTGGCGGTCTCGCTGCAGCTTCCATTTGGGTAGTAGTAAACCCCTCGCAACTGGAAGGC 475
Qy 236 GCGCGCGCAAGCGGTAAA--CCCCAACTTCTGAATGTTGACCTCGATCAGGTAGGA 293
Db 476 GCGCGCGCAAGCGGTAAAACCCCCCAACTTCTGAATGTTGACCTCGATCAGGTAGGA 535
Qy 294 ATACCCGCTGAACCTAA 310
Db 536 ATACCCGCTGAACCTAA 552

RESULT 8
US-09-961-755A-5
; Sequence 5, Application US/09961755A
; Publication No. US2003011372A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/09/961,755A
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium subglutinans
US-09-961-755A-5

Query Match 62.7%; Score 194.4; DB 10; Length 522;
Best Local Similarity 84.3%; Pred. No. 5.1e-60;
Matches 258; Conservative 0; Mismatches 36; Indels 12; Gaps 3;

Qy 1 AAATGCGATAAGTAATGTAATTGCAAAATTCAGTGAATCATCGAAATCTTTTGAACGCACA 60
Db 229 AAATGCGATAAGTAATGTAATTGCAAAATTCAGTGAATCATCGAAATCTTTTGAACGCACA 288
Qy 61 TTGCGCGCGCCAGTATTCTGCGGGGCATGCTTTCAGCGGTCAATTTCAACCCCTCAAGCC 120
Db 289 TTGCGCGCGCCAGTATTCTGCGGGGCATGCTTTCAGCGGTCAATTTCAACCCCTCAAGCC 348
Qy 121 CCGGGGTTTGGTGTGGGGATCGGCAAGCCCTTTCGCGCAAGCGCGCCCGGAATCTAGTG 180
Db 349 C-----AGCTTGGTGTTCGGACTTCGCGAGTCAAAATCGCGTTCCTCCCAAAATTGATTG 398
Qy 181 GCGGTCTCGCTGCAGCTTCCATTTGCGGTAGTAGTAAACCCCTCGCAACTGGTAGCGCGCG 240
Db 399 GCGGTCAAG--TCGAGCTTCCATAGCGTAGTAGTAAACCCCTCGTACTGTTGTAATCGTCGC 457
Qy 241 GGCACAGCGGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 458 GGCACAGCGGTTAAAC--CCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 516

RESULT 9
US-09-961-755A-8
; Sequence 8, Application US/09961755A
; Publication No. US2003011372A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/09/961,755A
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium verticillioides (syn. F. moniliforme)
US-09-961-755A-8

Query Match 62.7%; Score 194.4; DB 10; Length 522;
Best Local Similarity 84.3%; Pred. No. 5.1e-60;
Matches 258; Conservative 0; Mismatches 36; Indels 12; Gaps 3;

Qy 1 AAATGCGATAAGTAATGTAATTGCAAAATTCAGTGAATCATCGAAATCTTTTGAACGCACA 60
Db 229 AAATGCGATAAGTAATGTAATTGCAAAATTCAGTGAATCATCGAAATCTTTTGAACGCACA 288
Qy 61 TTGCGCGCGCCAGTATTCTGCGGGGCATGCTTTCAGCGGTCAATTTCAACCCCTCAAGCC 120
Db 289 TTGCGCGCGCCAGTATTCTGCGGGGCATGCTTTCAGCGGTCAATTTCAACCCCTCAAGCC 348
Qy 121 CCGGGGTTTGGTGTGGGGATCGGCAAGCCCTTTCGCGCAAGCGCGCCCGGAATCTAGTG 180
Db 349 C-----AGCTTGGTGTTCGGACTTCGCGAGTCAAAATCGCGTTCCTCCCAAAATTGATTG 398
Qy 181 GCGGTCTCGCTGCAGCTTCCATTTGCGGTAGTAGTAAACCCCTCGCAACTGGTAGCGCGCG 240
Db 399 GCGGTCAAG--TCGAGCTTCCATAGCGTAGTAGTAAACCCCTCGTACTGTTGTAATCGTCGC 457
Qy 241 GGCACAGCGGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 458 GGCACAGCGGTTAAAC--CCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 516
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QY 301 CTGAAC 306
Db 517 CTGAAC 522

RESULT 10
US-10-773-904-5
; Sequence 5, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,904
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium subglutinans
US-10-773-904-5

Query Match 62.7%; Score 194.4; DB 20; Length 522;
Best Local Similarity 84.3%; Pred. No. 5.1e-60;
Matches 258; Conservative 0; Mismatches 36; Indels 12; Gaps 3;

QY 1 AAATCGATAAGTAATGTGAATTGCAAAATTTCAGTGAATCATCGAATCTTTGAACGCACA 60
Db 229 AAATCGATAAGTAATGTGAATTGCAAAATTTCAGTGAATCATCGAATCTTTGAACGCACA 288

QY 61 TTGCGCCCGCCAGTATCTGCGGGCATCCCTGTTGAGCGGTCATTTCAACCCCTCAAGCC 120
Db 289 TTGCGCCCGCCAGTATCTGCGGGCATCCCTGTTGAGCGGTCATTTCAACCCCTCAAGCC 348

QY 121 CCGGGTTTGGTTGCGGGATCGGCAAGCCCTTGGGGAGCGGCGCCGCGGAATCTAGTG 180
Db 349 C-----AGCTTGGTTGGGACTCGCGAGTCAAAATCGCGTTCCCAAAATGATTG 398

QY 181 GCGGTCTCGTCGACGTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTACGGCGGC 240
Db 399 GCGGTCAAG-TGAGCTTCCATTGCGTAGTAGTAAACCCCTCGTACTGTTGTTAATGTCGC 457

QY 241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCG 300
Db 458 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCG 516

QY 301 CTGAAC 306
Db 517 CTGAAC 522

RESULT 12
US-10-773-905-5
; Sequence 5, Application US/10773905
; Publication No. US20040259121A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,905
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium subglutinans
US-10-773-905-5

Query Match 62.7%; Score 194.4; DB 20; Length 522;
Best Local Similarity 84.3%; Pred. No. 5.1e-60;
Matches 258; Conservative 0; Mismatches 36; Indels 12; Gaps 3;

QY 1 AAATCGATAAGTAATGTGAATTGCAAAATTTCAGTGAATCATCGAATCTTTGAACGCACA 60
Db 229 AAATCGATAAGTAATGTGAATTGCAAAATTTCAGTGAATCATCGAATCTTTGAACGCACA 288

QY 61 TTGCGCCCGCCAGTATCTGCGGGCATCCCTGTTGAGCGGTCATTTCAACCCCTCAAGCC 120
Db 289 TTGCGCCCGCCAGTATCTGCGGGCATCCCTGTTGAGCGGTCATTTCAACCCCTCAAGCC 348

QY 121 CCGGGTTTGGTTGCGGGATCGGCAAGCCCTTGGGGAGCGGCGCCGCGGAATCTAGTG 180
Db 349 C-----AGCTTGGTTGGGACTCGCGAGTCAAAATCGCGTTCCCAAAATGATTG 398

QY 181 GCGGTCTCGTCGACGTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTACGGCGGC 240
Db 399 GCGGTCAAG-TGAGCTTCCATTGCGTAGTAGTAAACCCCTCGTACTGTTAATGTCGC 457

QY 241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCG 300
Db 458 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCG 516

QY 301 CTGAAC 306
Db 517 CTGAAC 522

RESULT 11
US-10-773-904-8
; Sequence 8, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; FILE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,904
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
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Db 399 GCGGTACG-TCGAGCTTCCATAGCGTAGTAGTAAACCCCTCGTTACTGTGTAATCGTCGC 457
Qy 241 GGCCAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 458 GGCCACGCGGTTAAA-CCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 516
Qy 301 CTGAAC 306
Db 517 CTGAAC 522

RESULT 13
US-10-773-905-8
; Sequence 8, Application US/10773905
; Publication No. US20040259121A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,905
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Fusarium verticillioides (syn. F. moniliforme)
US-10-773-905-8

Query Match 62.7%; Score 194.4; DB 20; Length 522;
Best Local Similarity 84.3%; Pred. No. 5.1e-60; Indels 12; Gaps 3;
Matches 258; Conservative 0; Mismatches 36;

Qy 1 AAATGCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTTGAACGCACA 60
Db 229 AAATGCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTTGAACGCACA 288
Qy 61 TTGCGCCCGGCGAGTATTCGCGGGGCATGCTGTGTCAGCGTCATTTCAACCCCTCAAGCC 120
Db 289 TTGCGCCCGGCGAGTATTCGCGGGGCATGCTGTGTCAGCGTCATTTCAACCCCTCAAGCC 348
Qy 121 CCGGGTTCGTGTTGGGATCGCAAGCCCTTCGCGCAAGCCGCCCGCGAAATCTAGTG 180
Db 349 C-----AGCTTGTGTTGGACTCGCGAGTCAAAATCGCGTTCGCCAAATTTGATTG 398
Qy 181 GCGGTCTCGTGCAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTAGCGCGCGC 240
Db 399 GCGGTACG-TCGAGCTTCCATAGCGTAGTAGTAAACCCCTCGTTACTGTGTAATCGTCGC 457
Qy 241 GGCCAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db 458 GGCCACGCGGTTAAA-CCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 516
Qy 301 CTGAAC 306
Db 517 CTGAAC 522

RESULT 14
US-10-425-115-137730/c
; Sequence 137730, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
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; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 137730
; LENGTH: 780
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(780)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_57087C.1
US-10-425-115-137730

Query Match 58.4%; Score 181; DB 20; Length 780;
Best Local Similarity 79.1%; Pred. No. 4.8e-55;
Matches 242; Conservative 0; Mismatches 56; Indels 8; Gaps 2;

Qy 5 GCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTTGAACGCACATTGC 64
Db 780 GTGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTTGAACGCACATTGC 721
Qy 65 GCGCGCCAGTATTCGCGGGGCATGCTGTTCGAGCGTCATTTCAACCCCTCAAGCCCGCCG 124
Db 720 GCGCGCCAGTATTCGCGGGGCATGCTGTTCGAGCGTCATTTCAACCCCTCAAGCCCGCCG 661
Qy 125 GGTTCGTGTTGGGATCGCAAGCCCTTCGCGCAAGCCGCCCGCGAAATCTAGTGGCG 184
Db 660 G-----CTTGGTGTGGGAGCTGCAGTCTCTGCACCTCCCGCCCAANATACATTGCGG 608
Qy 185 TCTCGCTGCAGCTTCCATTGCGTAGTAGTAAACCCCTCGCAACTGGTAGCGCGCGCGGCC 244
Db 607 TCAGTCGAGCTTCCCATAGCGTAGTAATTTACAGATCGTTACTGTGTAATCGTCGCGGCC 548
Qy 245 AAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCGCTGA 304
Db 547 ACGCCGTTAAA-CCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCGCTGA 489
Qy 305 ACTTAA 310
Db 488 ACTTAA 483

RESULT 15
US-09-961-755A-6
; Sequence 6, Application US/09961755A
; Publication No. US20030113722A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/09/961,755A
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 521
; TYPE: DNA
; ORGANISM: Gibberella zeae
US-09-961-755A-6

Query Match 57.8%; Score 179.2; DB 10; Length 521;
Best Local Similarity 83.3%; Pred. No. 1.8e-54;
Matches 255; Conservative 0; Mismatches 38; Indels 13; Gaps 4;

Qy 1 AAATGCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTTGAACGCACA 60
Db 229 AAATGCGATAAGTAATGTGAATTGCAAAATTCAGTGAATCATCGAATCTTTTGAACGCACA 288
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QY      61 TTGCGCCCGCCAGTATTCTGGCGGGCATGCTGTTGAGCGTCAATTTCAACCCCTCAAGCC 120
Db      |||||
Db      289 TTGCGCCCGCCAGTATTCTGGCGGGCATGCTGTTGAGCGTCAATTTCAACCCCTCAAGCC 348
QY      121 CCCGGGTTTGGTGTGGGGATCGGCAAGCCCTTGCAGGCAAGCCGGCCCGGAAATCTAGTG 180
Db      |||||
Db      349 C---AGCTTGGTGTGGG-----AGCTGCAGTCTCTGTGCACCTCCCAAAATACATTG 397
QY      181 GCGGTCTCGCTGCAGCTTCCATTGCGTAGTAGTAAACCTCGCAACTGGTACGCGGCGC 240
Db      |||||
Db      398 GCGGTCAAG-TGAGCTTCCATAGCGTAGTAATTTACACATCGTTACTGGTAATCGTCGC 456
QY      241 GGCCAAAGCCGTTAAACCCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 300
Db      |||||
Db      457 GGCCACGCCGTTAAA-CCCAACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCG 515
QY      301 CTGAAC 306
Db      |||||
Db      516 CTGAAC 521

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 Job time : 1340.32 secs

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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 06:56:31 ; Search time 10.7318 Seconds
(without alignments)
2744.464 Million cell updates/sec

Title: US-10-046-955-49

Perfect score: 18

Sequence: 1 tctagtacggtctcgct 18

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

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- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	18	100.0	18	3	US-09-423-233-49
2	16.4	91.1	310	3	US-09-423-233-7
3	16.4	91.1	583	1	US-08-652-127C-8
4	16.4	91.1	594	1	US-08-652-127C-5
5	16.4	91.1	2293	3	US-09-645-073-1
6	14.8	82.2	531	1	US-08-652-127C-7
7	14.8	82.2	581	1	US-08-652-127C-6
8	14.8	82.2	15163	4	US-09-949-016-13246
9	14.8	82.2	39376	4	US-09-949-016-17536
10	14.8	82.2	63982	4	US-09-949-016-16769
11	14.4	80.0	601	4	US-09-949-016-54231
12	14.4	80.0	945	4	US-09-710-279-3309
13	14.4	80.0	1146	4	US-09-710-279-3055
14	14.4	80.0	1629	4	US-09-252-991A-2042
15	14.4	80.0	1308	4	US-09-252-991A-1914
16	14.4	80.0	2982	4	US-09-710-279-3385
17	14.4	80.0	3116	4	US-09-710-279-4248
18	14.4	80.0	9676	4	US-09-949-016-16629
19	14.4	80.0	46899	1	US-08-471-119A-1
20	14	77.8	636	2	US-08-737-129A-1
21	14	77.8	639	3	US-09-170-769A-1
22	14	77.8	645	3	US-09-170-769A-5
23	14	77.8	666	2	US-08-737-129A-5
24	14	77.8	717	5	PCT-US94-14106-58
25	14	77.8	735	5	PCT-US94-14106-50
26	14	77.8	735	5	PCT-US94-14106-54
27	14	77.8	777	2	US-08-860-882A-25

C 28	14	77.8	777	3	US-09-011-769A-20	Sequence 20, Appl
C 29	14	77.8	798	1	US-08-133-011-99	Sequence 99, Appl
C 30	14	77.8	798	1	US-08-322-730A-99	Sequence 99, Appl
C 31	14	77.8	798	1	US-08-387-874-71	Sequence 71, Appl
C 32	14	77.8	798	2	US-08-383-619-99	Sequence 99, Appl
C 33	14	77.8	798	3	US-08-907-739-99	Sequence 99, Appl
C 34	14	77.8	798	3	US-09-729-597-99	Sequence 99, Appl
C 35	14	77.8	798	5	PCT-US93-08364-71	Sequence 71, Appl
C 36	14	77.8	830	1	US-08-133-011-115	Sequence 115, Appl
C 37	14	77.8	830	1	US-08-322-730A-115	Sequence 115, Appl
C 38	14	77.8	830	2	US-08-387-874-88	Sequence 88, Appl
C 39	14	77.8	830	2	US-08-383-619-115	Sequence 115, Appl
C 40	14	77.8	830	3	US-08-907-739-115	Sequence 115, Appl
C 41	14	77.8	830	3	US-09-729-597-115	Sequence 115, Appl
C 42	14	77.8	830	5	PCT-US93-08364-88	Sequence 88, Appl
C 43	14	77.8	923	5	PCT-US94-07659-1	Sequence 1, Appl
C 44	14	77.8	1056	4	US-10-134-188-30	Sequence 30, Appl
C 45	14	77.8	1077	4	US-09-489-039A-1514	Sequence 1514, Ap

ALIGNMENTS

RESULT 1
US-09-423-233-49
; Sequence 49, Application US/09423233
; Patent No. 6372430
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America as
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 03063-0341WP
; CURRENT APPLICATION NUMBER: US/09/423,233
; CURRENT FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 49
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Fusarium moniliforme
US-09-423-233-49

Query Match 100.0%; Score 18; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGCTCTCGCT 18
Db 1 TCTAGTGACGCTCTCGCT 18

RESULT 2

US-09-423-233-7
; Sequence 7, Application US/09423233
; Patent No. 6372430
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America as
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 03063-0341WP
; CURRENT APPLICATION NUMBER: US/09/423,233
; CURRENT FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Fusarium moniliforme
US-09-423-233-7

Query Match 91.1%; Score 16.4; DB 3; Length 310;
Best Local Similarity 94.4%; Pred. No. 17;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY      1 TCTAGTGACGGTCTCGCT 18
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Db      174 TCTAGTGGCGGTCTCGCT 191

RESULT 3
US-08-652-127C-8
; Sequence 8, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESS: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 583
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-652-127C-8

Query Match          91.1%; Score 16.4; DB 1; Length 583;
Best Local Similarity 94.4%; Pred. No. 18;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCTAGTGACGGTCTCGCT 18
      |||||||
Db      429 TCTAGTGGCGGTCTCGCT 446

RESULT 4
US-08-652-127C-5
; Sequence 5, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESS: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 594
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-652-127C-5

Query Match          91.1%; Score 16.4; DB 1; Length 594;
Best Local Similarity 94.4%; Pred. No. 18;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCTAGTGACGGTCTCGCT 18
      |||||||
Db      2145 TCTAGTGGCGGTCTCGCT 2162

RESULT 6
US-08-652-127C-7
; Sequence 7, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESS: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 594
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-652-127C-7

Query Match          91.1%; Score 16.4; DB 3; Length 2293;
Best Local Similarity 94.4%; Pred. No. 21;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCTAGTGACGGTCTCGCT 18
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Db      2145 TCTAGTGGCGGTCTCGCT 2162

RESULT 5
US-09-645-073-1
; Sequence 1, Application US/09645073
; Patent No. 6287800
; GENERAL INFORMATION:
; APPLICANT: Lee, May
; APPLICANT: Galazzo, Jorge
; TITLE OF INVENTION: Production of High Titers of Gibberellins GA4 and GA7
; FILE REFERENCE: L02-01NP
; CURRENT APPLICATION NUMBER: US/09/645,073
; CURRENT FILING DATE: 2000-08-25
; PRIOR APPLICATION NUMBER: US 60/151,770
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2293
; TYPE: DNA
; ORGANISM: Gibberella fujikuroi
; US-09-645-073-1

Query Match          91.1%; Score 16.4; DB 3; Length 2293;
Best Local Similarity 94.4%; Pred. No. 21;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 531
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-652-127C-7

Query Match      82.2%; Score 14.8; DB 1; Length 531;
Best Local Similarity 88.9%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 TCTAGTGACGGTCTCGCT 18
      ||||| ||||| |||||
Db      377 TATAGTGGCGTCTCGCT 394

RESULT 7
US-08-652-127C-6
; Sequence 6, Application US/08652127C
; Patent No. 5792611
; GENERAL INFORMATION:
; APPLICANT: Richard C. Hamelin
; TITLE OF INVENTION: DETECTION OF PLANT
; TITLE OF INVENTION: PATHOGEN FUNGI
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: George A. Seaby
; ADDRESSEE: Seaby & MacLean
; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 581
; TYPE: nucleic acid

; STREET: 880 Wellington Street, Suite 708
; CITY: Ottawa
; COUNTRY: Canada
; ZIP: K1R 6K7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/652,127C
; FILING DATE: May 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George A. Seaby
; REGISTRATION NUMBER: 24,034
; REFERENCE/DOCKET NUMBER: 1898
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 232-5815
; TELEFAX: (613) 232-5831
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 581
; TYPE: nucleic acid

; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-652-127C-6

Query Match      82.2%; Score 14.8; DB 1; Length 581;
Best Local Similarity 88.9%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 TCTAGTGACGGTCTCGCT 18
      ||||| ||||| |||||
Db      427 TATAGTGGCGTCTCGCT 444

RESULT 8
US-09-949-016-13246
; Sequence 13246, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13246
; LENGTH: 15163
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-13246

Query Match      82.2%; Score 14.8; DB 4; Length 15163;
Best Local Similarity 88.9%; Pred. No. 1.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 TCTAGTGACGGTCTCGCT 18
      ||||| ||||| |||||
Db      5781 TTAGAGACGGTCTCGCT 5798

RESULT 9
US-09-949-016-17536/c
; Sequence 17536, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17536
; LENGTH: 39376
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(39376)
```

; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17536

Query Match 82.2%; Score 14.8; DB 4; Length 39376;
Best Local Similarity 88.9%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
|||||
Db 6959 TCTAGTGCGTCTCGCT 6942

RESULT 10

US-09-949-016-16769
; Sequence 16769, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16769
; LENGTH: 63982
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16769

Query Match 82.2%; Score 14.8; DB 4; Length 63982;
Best Local Similarity 88.9%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
|||||
Db 19046 TCTAGTGACTGTCTCAT 19063

RESULT 11

US-09-949-016-54231/c
; Sequence 54231, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54231
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-54231

Query Match 80.0%; Score 14.4; DB 4; Length 601;
Best Local Similarity 83.3%; Pred. No. 2.3e+02;

Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
|||||
Db 314 TTTAGAGACGGTCYCGCT 297

RESULT 12

US-09-710-279-3309/c
; Sequence 3309, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3309
; LENGTH: 945
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-710-279-3309

Query Match 80.0%; Score 14.4; DB 4; Length 945;
Best Local Similarity 93.8%; Pred. No. 2.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CTAGTGACGGTCTCGC 17
|||||
Db 268 CTACTGACGGTCTCGC 253

RESULT 13

US-09-710-279-3055/c
; Sequence 3055, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3055
; LENGTH: 1146
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3055

Query Match 80.0%; Score 14.4; DB 4; Length 1146;
Best Local Similarity 93.8%; Pred. No. 2.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CTAGTGACGGTCTCGC 17
|||||
Db 469 CTACTGACGGTCTCGC 454

RESULT 14

US-09-252-991A-2042


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; Sequence 2042, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 2042
; LENGTH: 1629
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-2042
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Query Match 80.0%; Score 14.4; DB 4; Length 1629;
Best Local Similarity 93.8%; Pred. No. 2.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy 3 TAGTGACGGTCTCGCT 18
|| |||||
Db 440 TACTGACGGTCTCGCT 455
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RESULT 15
US-09-252-991A-1914/c
; Sequence 1914, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 1914
; LENGTH: 1908
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1914
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Query Match 80.0%; Score 14.4; DB 4; Length 1908;
Best Local Similarity 93.8%; Pred. No. 2.6e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy 3 TAGTGACGGTCTCGCT 18
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Db 1286 TACTGACGGTCTCGCT 1271
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Job time : 11.7318 secs
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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 15:20:46 ; Search time 77.8251 Seconds
(without alignments)
1907.926 Million cell updates/sec

Title: US-10-046-955-49

Perfect score: 18

Sequence: 1 tctagtcggtctcgct 18

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Searched: 9772231 seqs, 4124568258 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
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- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
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- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/ptodata/2/pubpna/US10J_PUBCOMB.seq:*
- 23: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	100.0	18	15	US-10-046-955-49
2	16.4	91.1	310	15	Sequence 49, Appli
3	16.4	91.1	534	10	Sequence 7, Appli
4	16.4	91.1	534	20	Sequence 7, Appli
5	16.4	91.1	534	20	Sequence 7, Appli
6	15.4	85.6	279	20	Sequence 131520,
7	15	83.3	386	10	Sequence 33508, A

ALIGNMENTS

RESULT 1

US-10-046-955-49
; Sequence 49, Application US/10046955
; Publication No. US20030129600A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as Represented by the
; APPLICANT: Secretary of the Department of Health and Human Services, Centers for Dis
; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Aidorevich, Liliana
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; TITLE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 49
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Fusarium moniliforme
US-10-046-955-49

Sequence 34287, A
Sequence 1024, Ap
Sequence 24124, A
Sequence 237, App
Sequence 568242, A
Sequence 44516, A
Sequence 215234, A
Sequence 215235, A
Sequence 215234, A
Sequence 215235, A
Sequence 8208, Ap
Sequence 42609, A
Sequence 35831, A
Sequence 35832, A
Sequence 37892, A
Sequence 680442, A
Sequence 82321, A
Sequence 17944, A
Sequence 5769, Ap
Sequence 6767, Ap
Sequence 1024, Ap
Sequence 9, Appli
Sequence 166, App
Sequence 3814, Ap
Sequence 338, App
Sequence 12, Appl
Sequence 912120, A
Sequence 128972, A
Sequence 176089, A
Sequence 20, Appl
Sequence 25477, A
Sequence 270, App
Sequence 406631, A
Sequence 406632, A
Sequence 8809, Ap

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Query Match      100.0%; Score 18; DB 15; Length 18;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
    ||||| ||||| |||||
Db 1 TCTAGTGACGGTCTCGCT 18

RESULT 2
US-10-046-955-7
; Sequence 7, Application US/10046955
; Publication No. US20030129600A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as Represented by the
; APPLICANT: Secretary of the Department of Health and Human Services, Centers for Dis
; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Aidorevich, Liliانا
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; TITLE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Fusarium moniliforme
US-10-046-955-7

Query Match      91.1%; Score 16.4; DB 15; Length 310;
Best Local Similarity 94.4%; Pred. No. 85;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
    ||||| ||||| |||||
Db 174 TCTAGTGGCGTCTCGCT 191

RESULT 3
US-09-961-755A-7
; Sequence 7, Application US/09961755A
; Publication No. US20030113722A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/09/961,755A
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-09-961-755A-7

Query Match      91.1%; Score 16.4; DB 10; Length 534;
Best Local Similarity 94.4%; Pred. No. 83;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
    ||||| ||||| |||||
Db 1 TCTAGTGACGGTCTCGCT 18

RESULT 4
US-10-773-904-7
; Sequence 7, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,904
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-904-7

Query Match      91.1%; Score 16.4; DB 20; Length 534;
Best Local Similarity 94.4%; Pred. No. 83;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
    ||||| ||||| |||||
Db 402 TCTAGTGGCGGTCTCGCT 419

RESULT 5
US-10-773-905-7
; Sequence 7, Application US/10773905
; Publication No. US20040259121A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,905
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-905-7

Query Match      91.1%; Score 16.4; DB 20; Length 534;
Best Local Similarity 94.4%; Pred. No. 83;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
    ||||| ||||| |||||
Db 402 TCTAGTGGCGGTCTCGCT 419

RESULT 6
US-10-425-115-131520
; Sequence 131520, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
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Qy 1 TCTAGTGACGGTCTCGCT 18
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Db 402 TCTAGTGGCGGTCTCGCT 419

RESULT 4
US-10-773-904-7
; Sequence 7, Application US/10773904
; Publication No. US20040259120A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,904
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-904-7

Query Match      91.1%; Score 16.4; DB 20; Length 534;
Best Local Similarity 94.4%; Pred. No. 83;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
    ||||| ||||| |||||
Db 402 TCTAGTGGCGGTCTCGCT 419

RESULT 5
US-10-773-905-7
; Sequence 7, Application US/10773905
; Publication No. US20040259121A1
; GENERAL INFORMATION:
; APPLICANT: Beck, Jim
; APPLICANT: Barnett, Jason
; TITLE OF INVENTION: Detection of Fusarium Species infecting Corn Using the
; TITLE OF INVENTION: Polymerase Chain Reaction
; FILE REFERENCE: 60055
; CURRENT APPLICATION NUMBER: US/10/773,905
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: US/09/961,755
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Fusarium proliferatum
US-10-773-905-7

Query Match      91.1%; Score 16.4; DB 20; Length 534;
Best Local Similarity 94.4%; Pred. No. 83;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCTAGTGACGGTCTCGCT 18
    ||||| ||||| |||||
Db 402 TCTAGTGGCGGTCTCGCT 419

RESULT 6
US-10-425-115-131520
; Sequence 131520, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
```

APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 131520
LENGTH: 279
TYPE: DNA
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_51429C.1
US-10-425-115-131520

Query Match 85.6%; Score 15.4; DB 20; Length 279;
Best Local Similarity 94.1%; Pred. No. 2.9e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CTAGTACGGTCTCGCT 18
| | | | | | | | | | | | | | | | | |
Db 82 CGAGTGACGGTCTCGCT 98

RESULT 7

US-09-918-995-33508/c
Sequence 33508, Application US/09918995
Publication No. US20030073623A1
GENERAL INFORMATION:

APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 33508
LENGTH: 386
TYPE: DNA
ORGANISM: Homo sapiens

US-09-918-995-33508

Query Match 83.3%; Score 15; DB 10; Length 386;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AGTGACGGTCTCGCT 18
| | | | | | | | | | | | | | | | | |
Db 208 AGTGACGGTCTCGCT 194

RESULT 8

US-09-918-995-34287/c
Sequence 34287, Application US/09918995
Publication No. US20030073623A1
GENERAL INFORMATION:

APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 34287

LENGTH: 449
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)...(449)
OTHER INFORMATION: n = A,T,C or G
US-09-918-995-34287

Query Match 83.3%; Score 15; DB 10; Length 449;
Best Local Similarity 100.0%; Pred. No. 4.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AGTGACGGTCTCGCT 18
| | | | | | | | | | | | | | | | | |
Db 253 AGTGACGGTCTCGCT 239

RESULT 9

US-09-918-995-1024/c
Sequence 1024, Application US/09918995
Publication No. US20030073623A1
GENERAL INFORMATION:

APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1024
LENGTH: 473
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)...(473)
OTHER INFORMATION: n = A,T,C or G
US-09-918-995-1024

Query Match 83.3%; Score 15; DB 10; Length 473;
Best Local Similarity 100.0%; Pred. No. 4.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AGTGACGGTCTCGCT 18
| | | | | | | | | | | | | | | | | |
Db 230 AGTGACGGTCTCGCT 216

RESULT 10

US-10-450-763-24124
Sequence 24124, Application US/10450763
Publication No. US20050196754A1
GENERAL INFORMATION:

APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOFTWARE: Custom
SEQ ID NO 24124
LENGTH: 1596
TYPE: DNA

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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (1416)..(1033)
; OTHER INFORMATION: 64% homologous to Homo sapiens HCG V, accession number
; OTHER INFORMATION: US5588, Smith-Waterman Score=380.
US-10-450-763-24124

Query Match      83.3%; Score 15; DB 20; Length 1620;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 AGTGACGGTCTCGCT 18
      |||||
Db     1378 AGTGACGGTCTCGCT 1392

RESULT 11
US-10-684-422-237/c
; Sequence 237, Application US/10684422
; Publication No. US20040229233A1
; GENERAL INFORMATION:
; APPLICANT: ABURATANI, Hiroyuki
; APPLICANT: YAMAMOTO, Shogo
; TITLE OF INVENTION: Human housekeeping genes and human tissue-specific genes
; FILE REFERENCE: 113991
; CURRENT APPLICATION NUMBER: US/10/684,422
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 60/418,614
; PRIOR FILING DATE: 2002-10-16
; NUMBER OF SEQ ID NOS: 332
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 237
; LENGTH: 1620
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (200)..(580)
US-10-684-422-237

Query Match      83.3%; Score 15; DB 20; Length 1620;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 AGTGACGGTCTCGCT 18
      |||||
Db     238 AGTGACGGTCTCGCT 224

RESULT 12
US-11-036-317-568242/c
; Sequence 568242, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 568242
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-568242

Query Match      82.2%; Score 14.8; DB 24; Length 25;
Best Local Similarity 88.9%; Pred. No. 6.5e+02;

```

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Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TCTAGTGACGGTCTCGCT 18
      |||||
Db     19 TCGAGTGAAGGTCTCGCT 2

RESULT 13
US-10-424-599-44516
; Sequence 44516, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 44516
; LENGTH: 388
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_140197C.1
US-10-424-599-44516

Query Match      82.2%; Score 14.8; DB 18; Length 388;
Best Local Similarity 88.9%; Pred. No. 6.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TCTAGTGACGGTCTCGCT 18
      |||||
Db     319 TTACTGACGGTCTCGCT 336

RESULT 14
US-10-357-930-2782/c
; Sequence 2782, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2782
; LENGTH: 403
; TYPE: DNA
; ORGANISM: Homo sapiens

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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 211, 216, 362, 364
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-2782

Query Match      82.2%; Score 14.8; DB 20; Length 403;
Best Local Similarity 88.9%; Pred. NO. 6.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TCTAGTGACGGTCTCGCT 18
      |||||
Db      350 TCTAGTGACGGTCTCGCT 333

RESULT 15
US-10-437-963-74582/c
; Sequence 74582, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 74582
; LENGTH: 558
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_74754C.1
US-10-437-963-74582

Query Match      82.2%; Score 14.8; DB 19; Length 558;
Best Local Similarity 88.9%; Pred. NO. 6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 TCTAGTGACGGTCTCGCT 18
      |||||
Db      504 TCTAGAGACGGTCACGCT 487

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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 06:56:31 ; Search time 10.7318 Seconds
(without alignments)
2744.464 Million cell updates/sec

Title: US-10-046-955-50
Perfect score: 18
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Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	100.0	18	3	US-09-423-233-50
2	15	83.3	615	4	US-09-134-000C-314
3	14.8	82.2	207	4	US-09-107-532A-1902
4	14.8	82.2	650	4	US-09-669-751-103
5	14.8	82.2	2457	4	US-09-134-000C-2950
6	14.4	80.0	939	4	US-09-710-279-3059
7	14.4	80.0	963	3	US-09-134-000C-1367
8	14.4	80.0	2815	4	US-09-710-279-3819
9	14.4	80.0	146401	4	US-09-949-016-16151
10	14	77.8	3208	1	US-07-972-791-3
11	14	77.8	3345	1	US-07-972-791-7
12	14	77.8	3346	1	US-07-972-791-5
13	14	77.8	3347	1	US-07-972-791-2
14	14	77.8	3347	1	US-07-972-791-8
15	14	77.8	3361	1	US-07-972-791-6
16	14	77.8	3434	6	5310649-1
17	14	77.8	3434	6	5310649-1
18	13.8	76.7	601	4	US-09-949-016-142005
19	13.8	76.7	601	4	US-09-949-016-142006
20	13.8	76.7	601	4	US-09-949-016-172751
21	13.8	76.7	702	4	US-09-543-681A-4125
22	13.8	76.7	1356	4	US-09-328-352-1886
23	13.8	76.7	1386	3	US-09-134-001C-984
24	13.8	76.7	2229	4	US-09-902-540-4193
25	13.8	76.7	5679	3	US-08-844-274-10
26	13.8	76.7	5679	4	US-09-598-421-10
27	13.8	76.7	6642	4	US-09-809-665A-80

c	28	13.8	76.7	6723	3	US-08-844-274-13	Sequence 13, Appl
c	29	13.8	76.7	6723	3	US-08-844-274-14	Sequence 14, Appl
c	30	13.8	76.7	6723	4	US-09-598-421-13	Sequence 13, Appl
c	31	13.8	76.7	6723	4	US-09-598-421-14	Sequence 14, Appl
c	32	13.8	76.7	7560	3	US-08-844-274-20	Sequence 20, Appl
c	33	13.8	76.7	7560	4	US-09-598-421-20	Sequence 20, Appl
c	34	13.8	76.7	9423	4	US-09-377-066-6	Sequence 6, Appl
c	35	13.8	76.7	9676	4	US-09-949-016-16629	Sequence 16629, A
c	36	13.8	76.7	9704	3	US-09-814-951A-3	Sequence 3, Appl
c	37	13.8	76.7	9717	3	US-09-251-645-1	Sequence 1, Appl
c	38	13.8	76.7	9905	4	US-09-949-016-16862	Sequence 16862, A
c	39	13.8	76.7	12866	3	US-08-961-527-137	Sequence 137, App
c	40	13.8	76.7	21330	4	US-09-902-540-1209	Sequence 1209, Ap
c	41	13.8	76.7	46492	4	US-09-949-016-12953	Sequence 12953, A
c	42	13.8	76.7	46492	4	US-09-949-016-12954	Sequence 12954, A
c	43	13.8	76.7	49795	3	US-09-453-702B-60	Sequence 60, Appl
c	44	13.8	76.7	61847	4	US-09-949-016-16677	Sequence 16677, A
c	45	13.8	76.7	75674	4	US-09-949-016-17597	Sequence 17597, A

ALIGNMENTS

RESULT 1
US-09-423-233-50
; Sequence 50, Application US/09423233
; Patent No. 6372430
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America as
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 03063-0341WP
; CURRENT APPLICATION NUMBER: US/09/423,233
; CURRENT FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 50
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Fusarium oxysporum
US-09-423-233-50

Query Match 100.0%; Score 18; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 COTTAATTCGGTTCCTC 18
Db 1 COTTAATTCGGTTCCTC 18

RESULT 2
US-09-134-000C-314
; Sequence 314, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 314
; LENGTH: 615
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-134-000C-314
Query Match 83.3%; Score 15; DB 4; Length 615;

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Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GTTAATTCGCGTTCC 16
Db 172 GTTAATTCGCGTTCC 186

RESULT 3
US-09-107-532A-1902/c
; Sequence 1902, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 1902:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...207
; SEQUENCE DESCRIPTION: SEQ ID NO: 1902:
US-09-107-532A-1902

Query Match 82.2%; Score 14.8; DB 4; Length 207;
Best Local Similarity 88.9%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CGTTAATTCGCGTTCCCTC 18
Db 84 CGTTAATTCGTTCCCTC 67

RESULT 4
US-09-669-751-103
; Sequence 103, Application US/09669751
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; Patent No. 6551575
; GENERAL INFORMATION:
; APPLICANT: Greenspan, Ralph J.
; TITLE OF INVENTION: Methods for Identifying Compounds for
; Motion Sickness, Vertigo and Other Disorders Related to
; TITLE OF INVENTION: Balance and the Perception of Gravity
; FILE REFERENCE: P-NI 3864
; CURRENT APPLICATION NUMBER: US/09/669,751
; CURRENT FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US 60/168,579
; PRIOR FILING DATE: 1999-12-02
; NUMBER OF SEQ ID NOS: 261
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 650
; TYPE: DNA
; ORGANISM: Drosophila
US-09-669-751-103

Query Match 82.2%; Score 14.8; DB 4; Length 650;
Best Local Similarity 88.9%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CGTTAATTCGCGTTCCCTC 18
Db 69 CGTTCATACGCGTTCCCTC 86

RESULT 5
US-09-134-000C-2950/c
; Sequence 2950, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2950
; LENGTH: 2457
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-134-000C-2950

Query Match 82.2%; Score 14.8; DB 4; Length 2457;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CGTTAATTCGCGTTCCCTC 18
Db 963 CGTTAATTCGCGTTCCGC 946

RESULT 6
US-09-710-279-3059/c
; Sequence 3059, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/184,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3059
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; LENGTH: 939
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3059

Query Match      80.0%; Score 14.4; DB 4; Length 939;
Best Local Similarity 93.8%; Pred. No. 2.5e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 TTAATTCGCGTTCCTC 18
        ||||| |||||
Db      792 TTAATTCAGTTCCTC 807

RESULT 9
US-09-949-016-16151
; Sequence 16151, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16151
; LENGTH: 146401
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16151

Query Match      80.0%; Score 14.4; DB 4; Length 146401;
Best Local Similarity 93.8%; Pred. No. 3.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 TTAATTCGCGTTCCTC 18
        ||||| |||||
Db      89697 TTAATTCGCTTCCTC 89712

RESULT 10
US-07-972-791-3/c
; Sequence 3, Application US/07972791
; Patent No. 5348857
; GENERAL INFORMATION:
; APPLICANT: Ficht, Thomas A.
; APPLICANT: Sowa, Blair A.
; APPLICANT: Adams, L. Gary
; TITLE OF INVENTION: NOVEL PROBES AND METHOD FOR IDENTIFYING
; TITLE OF INVENTION: SPECIES AND BIOVARS OF BRUCELLA
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PRAVEL, GAMBRELL, HEWITT, & KRIEGER
; STREET: 1177 West Loop South, 10th Floor
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77027
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/972,791
; FILING DATE: 19921106
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Kettelberger, Denise M.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-850-0909
; TELEFAX: 713-850-0165
```

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;
;
; TELEX: 792026
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3208 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Brucella abortus
; STRAIN: biovar 1 (s2308)
;
US-07-972-791-3
;
Query Match 77.8%; Score 14; DB 1; Length 3208;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GTTAATTCGCGTTC 15
|||||
Db 1488 GTTAATTCGCGTTC 1475

RESULT 11
US-07-972-791-7/c
; Sequence 7, Application US/07972791
; Patent No. 5348857
; GENERAL INFORMATION:
; APPLICANT: Ficht, Thomas A.
; APPLICANT: Sowa, Blair A.
; APPLICANT: Adams, L. Gary
; TITLE OF INVENTION: NOVEL PROBES AND METHOD FOR IDENTIFYING
; TITLE OF INVENTION: SPECIES AND BIOVARS OF BRUCELLA
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PRAVEL, GAMBRELL, HEWITT, & KRIEGER
; STREET: 1177 West Loop South, 10th Floor
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77027
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 19921106
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Kettelberger, Denise M.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-850-0909
; TELEFAX: 713-850-0165
; TELEX: 792026
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3346 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Brucella neotomae
;
US-07-972-791-5
;
Query Match 77.8%; Score 14; DB 1; Length 3346;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GTTAATTCGCGTTC 15
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Db 1488 GTTAATTCGCGTTC 1475

RESULT 13
US-07-972-791-2/c
; Sequence 2, Application US/07972791
; Patent No. 5348857
; GENERAL INFORMATION:
; APPLICANT: Ficht, Thomas A.
; APPLICANT: Sowa, Blair A.
; APPLICANT: Adams, L. Gary
; TITLE OF INVENTION: NOVEL PROBES AND METHOD FOR IDENTIFYING
; TITLE OF INVENTION: SPECIES AND BIOVARS OF BRUCELLA
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PRAVEL, GAMBRELL, HEWITT, & KRIEGER
; STREET: 1177 West Loop South, 10th Floor
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
;
US-07-972-791-7
;
Query Match 77.8%; Score 14; DB 1; Length 3345;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GTTAATTCGCGTTC 15
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; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Brucella suis
; STRAIN: biovar 1
;
US-07-972-791-8

Query Match 77.8%; Score 14; DB 1; Length 3347;
Best Local Similarity 100.0%; Pred. No. 4.6e-02;
Matches 14; Conservative 0; Mismatches 0; Indels

QY 2 GTTAATTCGGTTC 15
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DB 1488 GTTAATTCGGTTC 1475

RESULT 15
US-07-972-791-6/c
; Sequence 6, Application US/07972791
; Patent No. 5348857
; GENERAL INFORMATION:
; APPLICANT: Ficht, Thomas A.
; APPLICANT: Sowa, Blair A.
; APPLICANT: Adams, L. Gary
; TITLE OF INVENTION: NOVEL PROBES AND METHOD FOR IDENTIFYING
; TITLE OF INVENTION: SPECIES AND BIOVARS OF BRUCELLA
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PRAVEL, GAMBRELL, HEWITT, & KRIEGER
; STREET: 1177 West Loop South, 10th Floor
; CITY: Houston
; STATE: Texas
; COUNTRY: USA

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, CONTROL CARD.
, MEDIUM TYPE: Floppy disk
, COMPUTER: IBM PC compatible
, OPERATING SYSTEM: PC-DOS/MS-DOS
, SOFTWARE: Patent In Release #1.0, Version #1.25
, CURRENT APPLICATION DATA:
, APPLICATION NUMBER: US/07/972,791
, FILING DATE: 19921106
, CLASSIFICATION: 435
, ATTORNEY/AGENT INFORMATION:
, NAME: Kettelberger, Denise M.
, TELECOMMUNICATION INFORMATION:
, TELEPHONE: 713-850-0909
, TELEFAX: 713-850-0165
, TELEX: 792026
, INFORMATION FOR SEQ ID NO: 6:
, SEQUENCE CHARACTERISTICS:
, LENGTH: 3361 base pairs
, TYPE: NUCLEIC ACID
, STRANDEDNESS: single
, TOPOLOGY: linear
, MOLECULE TYPE: CDNA
, ORGANISM: Brucella ovis
, ORIGINAL SOURCE:
, US-07-972-791-6

Query Match 77.8%; Score 14; DB 1; Length 3361;
Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 14; Conservative 0; Mismatches 0; Indels

Qy 2 GTTAATTCGGGTTTC 15
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Db 1503 GTTAATTCGGGTTTC 1490

Search completed: October 23, 2005, 16:07:08
Job time : 11.7318 secs

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Search completed: October 23, 2005, 16:07:08
Job time : 11.7318 secs

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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 15:20:46 ; Search time 77.8251 Seconds
(without alignments)
1907.926 Million cell updates/sec

Title: US-10-046-955-50

Perfect score: 18

Sequence: 1 cgttaattcggtcttc 18

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Gapop 10.0 , Gapext 1.0

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Maximum Match 100%

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- 12: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
- 13: /cgn2_6/ptodata/2/pubpna/US05_PUBCOMB.seq.*
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- 15: /cgn2_6/ptodata/2/pubpna/US03_PUBCOMB.seq.*
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- 23: /cgn2_6/ptodata/2/pubpna/US05_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/2/pubpna/US04_PUBCOMB.seq.*
- 25: /cgn2_6/ptodata/2/pubpna/US03_PUBCOMB.seq.*
- 26: /cgn2_6/ptodata/2/pubpna/US02_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	100.0	18	15	US-10-046-955-50
2	15.4	85.6	538	20	Sequence 50, Appl
3	15.4	85.6	538	20	Sequence 23645, A
4	15.4	85.6	538	21	Sequence 23646, A
5	15.4	85.6	538	21	Sequence 23645, A
6	15.4	85.6	461	19	Sequence 23646, A
7	15	83.3	127	17	Sequence 93618, A

RESULT 1

US-10-046-955-50
; Sequence 50, Application US/10046955
; Publication No. US20030129600A1

GENERAL INFORMATION:

; APPLICANT: The Government of the United States of America, as Represented by the
; APPLICANT: Secretary of the Department of Health and Human Services, Centers for Di-
; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Aldorevich, Liliana
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; TITLE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02

ALIGNMENTS

c	8	15	83.3	128	9	US-09-815-242-996	Sequence 996, App
c	9	15	83.3	250	9	US-09-815-242-555	Sequence 555, App
c	10	15	83.3	250	17	US-10-282-122A-531	Sequence 531, App
c	11	15	83.3	1467	17	US-10-282-122A-6332	Sequence 6332, App
c	12	15	83.3	9212	9	US-09-070-927A-334	Sequence 334, App
c	13	14.8	82.2	262	10	US-09-535-459-1371	Sequence 1371, App
c	14	14.8	82.2	438	18	US-10-424-599-43896	Sequence 43896, A
c	15	14.8	82.2	554	20	US-10-363-345A-1073	Sequence 1073, App
c	16	14.8	82.2	554	20	US-10-363-345A-1073	Sequence 1074, App
c	17	14.8	82.2	554	21	US-10-363-483A-1073	Sequence 1073, App
c	18	14.8	82.2	554	21	US-10-363-483A-1074	Sequence 1074, App
c	19	14.8	82.2	585	19	US-10-437-963-81762	Sequence 81762, A
c	20	14.8	82.2	650	14	US-10-255-536-103	Sequence 103, App
c	21	14.8	82.2	816	20	US-10-425-115-60210	Sequence 60210, A
c	22	14.8	82.2	1200	24	US-11-097-143-16178	Sequence 16178, A
c	23	14.8	82.2	1231	20	US-10-363-345A-14681	Sequence 14681, A
c	24	14.8	82.2	1231	20	US-10-363-345A-14681	Sequence 14682, A
c	25	14.8	82.2	1231	21	US-10-363-483A-14881	Sequence 14881, A
c	26	14.8	82.2	1231	21	US-10-363-483A-14882	Sequence 14882, A
c	27	14.8	82.2	1445	20	US-10-425-115-145901	Sequence 145901, A
c	28	14.8	82.2	3135	17	US-10-282-122A-20853	Sequence 20853, A
c	29	14.8	82.2	3138	9	US-09-815-242-6520	Sequence 6520, App
c	30	14.8	82.2	3257	24	US-11-097-143-16177	Sequence 16177, A
c	31	14.8	82.2	4491	24	US-11-097-143-316	Sequence 316, App
c	32	14.8	82.2	5864	24	US-11-097-143-2872	Sequence 1279, App
c	33	14.8	82.2	15428	24	US-11-097-143-1279	Sequence 1279, App
c	34	14.8	82.2	2731748	19	US-10-297-465A-1	Sequence 1, Appli
c	35	14.4	80.0	65	16	US-10-032-585-259	Sequence 259, App
c	36	14.4	80.0	230	17	US-10-242-535A-247	Sequence 247, App
c	37	14.4	80.0	230	18	US-10-085-783A-247	Sequence 247, App
c	38	14.4	80.0	306	9	US-09-974-300-6603	Sequence 6603, App
c	39	14.4	80.0	467	12	US-09-925-065A-400752	Sequence 400752, A
c	40	14.4	80.0	536	12	US-09-925-065A-18369	Sequence 18369, A
c	41	14.4	80.0	540	20	US-10-363-345A-4913	Sequence 4913, App
c	42	14.4	80.0	540	20	US-10-363-345A-4914	Sequence 4914, App
c	43	14.4	80.0	540	21	US-10-363-483A-4913	Sequence 4913, App
c	44	14.4	80.0	540	21	US-10-363-483A-4914	Sequence 4914, App
c	45	14.4	80.0	559	16	US-10-029-386-7594	Sequence 7594, App

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Query Match      100.0%; Score 18; DB 15; Length 18;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 CGTTAATTCGGGTTCCCTC 18
        |||||
Db      1 CGTTAATTCGGGTTCCCTC 18

RESULT 2
US-10-363-345A-23645
; Sequence 23645, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363.345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 23645
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 23645
US-10-363-345A-23645

Query Match      85.6%; Score 15.4; DB 20; Length 538;
Best Local Similarity 94.1%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GTTAATTCGGGTTCCCTC 18
        |||||
Db      434 GTTAATTCGGGTTCCGTC 450

RESULT 3
US-10-363-345A-23646/c
; Sequence 23646, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363.345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 23646
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 23646
US-10-363-345A-23646

Query Match      85.6%; Score 15.4; DB 20; Length 538;
Best Local Similarity 94.1%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GTTAATTCGGGTTCCCTC 18
        |||||
Db      434 GTTAATTCGGGTTCCGTC 450

RESULT 4
US-10-363-483A-23645
; Sequence 23645, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363.483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 23645
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 23645
US-10-363-483A-23645

Query Match      85.6%; Score 15.4; DB 21; Length 538;
Best Local Similarity 94.1%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GTTAATTCGGGTTCCCTC 18
        |||||
Db      434 GTTAATTCGGGTTCCGTC 450

RESULT 5
US-10-363-483A-23646/c
; Sequence 23646, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363.483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 23646
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 23646
US-10-363-483A-23646

Query Match      85.6%; Score 15.4; DB 21; Length 538;
Best Local Similarity 94.1%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GTTAATTCGGGTTCCCTC 18
        |||||
Db      105 GTTAATTCGGGTTCCGTC 89

RESULT 6
US-10-437-963-93618/c
; Sequence 93618, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
```

```
Query Match      100.0%; Score 18; DB 15; Length 18;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 CGTTAATTCGGGTTCCCTC 18
        |||||
Db      1 CGTTAATTCGGGTTCCCTC 18

RESULT 2
US-10-363-345A-23645
; Sequence 23645, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363.345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 23645
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 23645
US-10-363-345A-23645

Query Match      85.6%; Score 15.4; DB 20; Length 538;
Best Local Similarity 94.1%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GTTAATTCGGGTTCCCTC 18
        |||||
Db      434 GTTAATTCGGGTTCCGTC 450

RESULT 3
US-10-363-345A-23646/c
; Sequence 23646, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363.345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 23646
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 23646
US-10-363-345A-23646

Query Match      85.6%; Score 15.4; DB 20; Length 538;
Best Local Similarity 94.1%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GTTAATTCGGGTTCCCTC 18
        |||||
Db      434 GTTAATTCGGGTTCCGTC 450

RESULT 4
US-10-363-483A-23645
; Sequence 23645, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363.483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 23645
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 23645
US-10-363-483A-23645

Query Match      85.6%; Score 15.4; DB 21; Length 538;
Best Local Similarity 94.1%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GTTAATTCGGGTTCCCTC 18
        |||||
Db      434 GTTAATTCGGGTTCCGTC 450

RESULT 5
US-10-363-483A-23646/c
; Sequence 23646, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363.483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 23646
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 23646
US-10-363-483A-23646

Query Match      85.6%; Score 15.4; DB 21; Length 538;
Best Local Similarity 94.1%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GTTAATTCGGGTTCCCTC 18
        |||||
Db      105 GTTAATTCGGGTTCCGTC 89

RESULT 6
US-10-437-963-93618/c
; Sequence 93618, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
```



```
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 93618
; LENGTH: 4461
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_91986C.1
US-10-437-963-93618

Query Match      85.6%; Score 15.4; DB 19; Length 4461;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GTTAATTCGCGTTCCTC 18
DB      1209 GTTAATTCACGTTCTCTC 1193

RESULT 7
US-10-282-122A-978/c
; Sequence 978, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 978
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; LENGTH: 127
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-10-282-122A-978

Query Match      83.3%; Score 15; DB 17; Length 127;
Best Local Similarity 100.0%; Pred. No. 4.9e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GTTAATTCGCGTTCC 16
DB      117 GTTAATTCGCGTTCC 103

RESULT 8
US-09-815-242-996/c
; Sequence 996, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 996
; LENGTH: 128
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-815-242-996

Query Match      83.3%; Score 15; DB 9; Length 128;
Best Local Similarity 100.0%; Pred. No. 4.9e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GTTAATTCGCGTTCC 16
DB      118 GTTAATTCGCGTTCC 104

RESULT 9
US-09-815-242-555/c
; Sequence 555, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
```

```
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; PROKARYOTES
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 555
; LENGTH: 250
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-815-242-555

Query Match      83.3%; Score 15; DB 9; Length 250;
Best Local Similarity 100.0%; Pred. No. 5.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GTTAATTTCGGTTCC 16
Db      54 GTTAATTTCGGTTCC 40
|||||

RESULT 10
US-10-282-122A-531/c
; Sequence 531, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6332
; LENGTH: 1467
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
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; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 531
; LENGTH: 250
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-10-282-122A-531

Query Match      83.3%; Score 15; DB 17; Length 250;
Best Local Similarity 100.0%; Pred. No. 5.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GTTAATTTCGGTTCC 16
Db      54 GTTAATTTCGGTTCC 40
|||||

RESULT 11
US-10-282-122A-6332
; Sequence 6332, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6332
; LENGTH: 1467
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
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US-10-282-122A-6332

Query Match 83.3%; Score 15; DB 17; Length 1467;
Best Local Similarity 100.0%; Pred. No. 6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GTTAATTCGGTTC 16
DB 1027 GTTAATTCGGTTC 1041

RESULT 12

US-09-070-927A-334
; Sequence 334, Application US/09070927A
; Patent No. US20020120116A1
; GENERAL INFORMATION:
; APPLICANT: Charles A. Kunsch
; Steven Barash
; Patrick J. Dillon

; TITLE OF INVENTION: Enterococcus faecialis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 982
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/070,927A
; FILING DATE: 04-May-2000
; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/046,655
; FILING DATE: 1997-05-16
; APPLICATION NUMBER: 60/044,031
; FILING DATE: 1997-05-06
; APPLICATION NUMBER: 60/066,009
; FILING DATE: 1997-11-14
; ATTORNEY/AGENT INFORMATION:
; NAME: Kenley K. Hoover
; REGISTRATION NUMBER: 40,302
; REFERENCE/DOCKET NUMBER: PB369
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 334:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9212 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 334:
US-09-070-927A-334

Query Match 83.3%; Score 15; DB 9; Length 9212;
Best Local Similarity 100.0%; Pred. No. 7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GTTAATTCGGTTC 16

DB 4989 GTTAATTCGGTTC 5003

RESULT 13

US-09-535-459-1371/c
; Sequence 1371, Application US/09535459
; Publication No. US20030040615A1

; GENERAL INFORMATION:

; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Delegeane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULES
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; CURRENT FILING DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 1371
; LENGTH: 262
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01153717
US-09-535-459-1371

Query Match 82.2%; Score 14.8; DB 10; Length 262;
Best Local Similarity 88.9%; Pred. No. 6.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CGTTAATTCCGGTTCCTC 18

DB 102 CCTTAATTCCGGTTCCTC 85

RESULT 14

US-10-424-599-43896
; Sequence 43896, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 43896
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MPT3847_139637C.1
US-10-424-599-43896

Query Match 82.2%; Score 14.8; DB 18; Length 438;
Best Local Similarity 88.9%; Pred. No. 7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CGTTAATTCCGGTTCCTC 18

DB 297 CGTAAATTCCGGTTCATC 314

RESULT 15

US-10-363-345A-1073
; Sequence 1073, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined

; TITLE OF INVENTION: cytosines in genomic DNA in the sequence context of 5'-CpG-3'
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 1073
; LENGTH: 554
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 1073
US-10-363-345A-1073

Query Match 82.2%; Score 14.8; DB 20; Length 554;
Best Local Similarity 88.9%; Pred. No. 7.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CGTTAATTTCGCGTTCTC 18
|||
Db 113 CGTTAATTTCGCGTTTATC 130
|||

Search completed: October 23, 2005, 23:48:19
Job time : 79.8251 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 06:56:31 ; Search time 12.5204 Seconds
(without alignments)
2744.464 Million cell updates/sec

Title: US-10-046-955-51
Perfect score: 21
Sequence: 1 ctacacactcgcaactggaga 21

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
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2: /cgn2_6/prodata/1/ina/5B_COMB.seq: *
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5: /cgn2_6/prodata/1/ina/PCITUS_COMB.seq: *
6: /cgn2_6/prodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	21	3	US-09-423-233-51
2	21	100.0	319	3	US-09-423-233-6
3	19	90.5	561	1	US-08-905-314A-24
C 4	16.2	77.1	601	4	US-09-949-016-87133
C 5	16.2	77.1	601	4	US-09-949-016-87134
C 6	16.2	77.1	33769	4	US-09-544-3988-8
C 7	16.2	77.1	33769	4	US-09-543-771B-8
C 8	16.2	77.1	89625	4	US-09-949-016-17012
C 9	16.2	77.1	140844	4	US-09-949-016-14199
C 10	15.4	73.3	2034	4	US-09-815-923-11
C 11	15.4	73.3	29555	4	US-08-956-171E-206
C 12	15.4	73.3	29555	4	US-08-781-986A-206
C 13	15.4	73.3	36181	4	US-08-311-731A-120
C 14	15.4	73.3	38494	4	US-08-311-731A-24
C 15	15.4	73.3	38494	4	US-08-311-731A-135
C 16	15.2	72.4	601	4	US-09-949-016-145735
C 17	15.2	72.4	601	4	US-09-949-016-146003
C 18	15.2	72.4	601	4	US-09-949-016-146271
C 19	15.2	72.4	601	4	US-09-949-016-150850
C 20	15.2	72.4	1173	4	US-09-398-858-13
C 21	15.2	72.4	8207	4	US-09-902-540-925
C 22	15.2	72.4	56963	4	US-09-949-016-12966
C 23	15.2	72.4	56968	4	US-09-949-016-11888
C 24	15.2	72.4	76124	4	US-09-949-016-15976
C 25	15.2	72.4	205044	4	US-09-949-016-15851
C 26	15.2	72.4	205044	4	US-09-949-016-15852
C 27	15.2	72.4	205044	4	US-09-949-016-15853

C 28	15.2	72.4	223471	4	US-09-949-016-12387	Sequence 12387, A
C 29	15.2	72.4	223471	4	US-09-949-016-12724	Sequence 12724, A
C 30	15.2	72.4	223471	4	US-09-949-016-12725	Sequence 12725, A
C 31	14.8	70.5	283	4	US-09-270-767-2818	Sequence 2818, Ap
C 32	14.8	70.5	283	4	US-09-270-767-18100	Sequence 18100, A
C 33	14.8	70.5	927	4	US-09-252-991A-8522	Sequence 6522, Ap
C 34	14.8	70.5	41171	4	US-08-311-731A-122	Sequence 122, App
C 35	14.8	70.5	42246	4	US-09-949-016-17008	Sequence 17008, A
C 36	14.8	70.5	53562	4	US-09-949-016-16286	Sequence 16286, A
C 37	14.8	70.5	59123	4	US-09-949-016-12177	Sequence 12177, A
C 38	14.8	70.5	83617	4	US-09-949-016-12254	Sequence 12254, A
C 39	14.8	70.5	1230025	4	US-09-198-452A-1	Sequence 1, Appli
C 40	14.8	70.5	1230230	4	US-09-438-185A-1	Sequence 1, Appli
C 41	14.8	70.5	4403765	3	US-09-103-840A-2	Sequence 2, Appli
C 42	14.8	70.5	4411529	3	US-09-103-840A-1	Sequence 1, Appli
C 43	14.6	69.5	25	4	US-09-396-196G-38445	Sequence 38445, A
C 44	14.6	69.5	25	4	US-09-396-196G-38446	Sequence 38446, A
C 45	14.6	69.5	25	4	US-09-396-196G-38447	Sequence 38447, A

ALIGNMENTS

RESULT 1
US-09-423-233-51
; Sequence 51, Application US/09423233
; Patent No. 6372430
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America as
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE REFERENCE: 03063-0341WP
; CURRENT APPLICATION NUMBER: US/09/423,233
; CURRENT FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Fusarium solani
US-09-423-233-51

Query Match 100.0%; Score 21; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCACTGGAGA 21
Db 1 CTAACACCTCGCACTGGAGA 21

RESULT 2

US-09-423-233-6
; Sequence 6, Application US/09423233
; Patent No. 6372430
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America as
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE REFERENCE: 03063-0341WP
; CURRENT APPLICATION NUMBER: US/09/423,233
; CURRENT FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Fusarium solani
US-09-423-233-6

Query Match 100.0%; Score 21; DB 3; Length 319;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
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Db 222 CTAACACCTCGCAACTGGAGA 242
|||||

RESULT 3
US-08-905-314A-24
; Sequence 24, Application US/08905314A
; Patent No. 5827695
; GENERAL INFORMATION:
; APPLICANT: Beck, James J.
; TITLE OF INVENTION: DETECTION OF WHEAT FUNGAL PATHOGENS
; TITLE OF INVENTION: USING THE POLYMERASE CHAIN REACTION
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5827695artis Corporation Patent Department
; STREET: 3054 Cornwalis Road
; CITY: Research Triangle Park
; STATE: NC
; COUNTRY: USA
; ZIP: 20779-2257
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/905,314A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timothy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: CGC 1944
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 541-8587
; TELEFAX: (919) 541-8689
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 561 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; STRAIN: Fusarium avenaceum
; INDIVIDUAL ISOLATE: 64452 and R-4045 (consensus sequence)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..30
; OTHER INFORMATION: /note= "3' end of small subunit"
; OTHER INFORMATION: rRNA gene"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 31..181
; OTHER INFORMATION: /note= "ITS 1"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 182..338
; OTHER INFORMATION: /note= "5.8S rRNA gene"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 339..504
; OTHER INFORMATION: /note= "ITS 2"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 505..561
; OTHER INFORMATION: /note= "5' end of large subunit"
; OTHER INFORMATION: rRNA gene"
US-08-905-314A-24

Query Match 90.5%; Score 19; DB 1; Length 561;

Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGA 19
|||||
Db 445 CTAACACCTCGCAACTGGA 463
|||||

RESULT 4
US-09-949-016-87133/c
; Sequence 87133, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 87133
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-87133

Query Match 77.1%; Score 16.2; DB 4; Length 601;
Best Local Similarity 85.7%; Pred. No. 75;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
|||||
Db 483 CTAGCACCTCTCAACTGGACA 463
|||||

RESULT 5
US-09-949-016-87134/c
; Sequence 87134, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 87134
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-87134

Query Match 77.1%; Score 16.2; DB 4; Length 601;
Best Local Similarity 85.7%; Pred. No. 75;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
|||||

```
Db 66 CTAGCACCTCTCAACTGGACA 46

RESULT 6
US-09-544-398B-8
; Sequence 8, Application US/09544398B
; Patent No. 6770461
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-013
; CURRENT APPLICATION NUMBER: US/09/544,398B
; PRIOR FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 641
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 33769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (33739), (33749), (33758)
; OTHER INFORMATION: Identity of nucleotide sequences at the above locations are unknown
US-09-544-398B-8

Query Match 77.1%; Score 16.2; DB 4; Length 33769;
Best Local Similarity 85.7%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
||| ||||| ||||| ||||| |||||
Db 25831 CTAGCACCTCTCAACTGGACA 25851

RESULT 7
US-09-543-771B-8
; Sequence 8, Application US/09543771B
; Patent No. 6780609
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-014
; CURRENT APPLICATION NUMBER: US/09/543,771B
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 641
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 33769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (33739), (33749), (33758)
; OTHER INFORMATION: Identity of nucleotide sequences at the above locations are unknown
US-09-543-771B-8

Query Match 77.1%; Score 16.2; DB 4; Length 33769;
Best Local Similarity 85.7%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
||| ||||| ||||| ||||| |||||
Db 25831 CTAGCACCTCTCAACTGGACA 25851

RESULT 8
US-09-949-016-17012/c
; Sequence 17012, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17012
; LENGTH: 89625
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)....(89625)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17012

Query Match 77.1%; Score 16.2; DB 4; Length 89625;
Best Local Similarity 85.7%; Pred. No. 1.5e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
||| ||||| ||||| ||||| |||||
Db 32181 CTACCACCTCCCAACTGGAGA 32161

RESULT 9
US-09-949-016-14199/c
; Sequence 14199, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14199
; LENGTH: 140844
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
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Query Match 73.3%; Score 15.4; DB 4; Length 29555;
Best Local Similarity 94.1%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TAACACTCGCACTGG 18
|||||
Db 1809 TAATACCTCGCACTGG 1793

RESULT 13
US-08-311-731A-120/c
; Sequence 120, Application US/08311731A
; Patent No. 6583266
; GENERAL INFORMATION:
; APPLICANT: SMITH, DOUGLAS
; APPLICANT: MAO, JEN-I
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
; TITLE OF INVENTION: RELATING TO MYCOBACTERIUM TUBERCULOSIS AND LAPRAE FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 411
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WOLF, GREENFIELD & SACKS, P.C.
; STREET: 600 ATLANTIC AVENUE
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/311,731A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: GATES, EDWARD R.
; REGISTRATION NUMBER: 31,616
; REFERENCE/DOCKET NUMBER: C0044/7125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/720-3500
; TELEFAX: 617/720-2441
; INFORMATION FOR SEQ ID NO: 120:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36181 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: MYCOBACTERIUM LEPRAE
; US-08-311-731A-120

Query Match 73.3%; Score 15.4; DB 4; Length 36181;
Best Local Similarity 94.1%; Pred. No. 3.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 AACACTCGCACTGGA 19
|||||
Db 28405 AACACCGCGCACTGGA 28389

RESULT 14
US-08-311-731A-24/c
; Sequence 24, Application US/08311731A
; Patent No. 6583266
; GENERAL INFORMATION:
; APPLICANT: SMITH, DOUGLAS
; APPLICANT: MAO, JEN-I
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES

; TITLE OF INVENTION: RELATING TO MYCOBACTERIUM TUBERCULOSIS AND LAPRAE FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 411
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WOLF, GREENFIELD & SACKS, P.C.
; STREET: 600 ATLANTIC AVENUE
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/311,731A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: GATES, EDWARD R.
; REGISTRATION NUMBER: 31,616
; REFERENCE/DOCKET NUMBER: C0044/7125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/720-3500
; TELEFAX: 617/720-2441
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 38494 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: MYCOBACTERIUM LEPRAE
; US-08-311-731A-24

Query Match 73.3%; Score 15.4; DB 4; Length 38494;
Best Local Similarity 94.1%; Pred. No. 3.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 CACCTCGCACTGGAGA 21
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Db 23279 CACCTCGCACTGGCGA 23263

RESULT 15
US-08-311-731A-135/c
; Sequence 135, Application US/08311731A
; Patent No. 6583266
; GENERAL INFORMATION:
; APPLICANT: SMITH, DOUGLAS
; APPLICANT: MAO, JEN-I
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
; TITLE OF INVENTION: RELATING TO MYCOBACTERIUM TUBERCULOSIS AND LAPRAE FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 411
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WOLF, GREENFIELD & SACKS, P.C.
; STREET: 600 ATLANTIC AVENUE
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/311,731A

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;
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: GATES, EDWARD R.
; REGISTRATION NUMBER: 31,616
; REFERENCE/DOCKET NUMBER: C0044/7125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/720-3500
; TELEFAX: 617/720-2441
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 38675 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Mycobacterium leprae
; US-08-311-731A-135

Query Match      73.3%; Score 15.4; DB 4; Length 38675;
Best Local Similarity 94.1%; Pred. No. 3.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5 CACCTCGCAACTGGAGA 21
      |||||
Db      3801 CACCTCGCAACTGGCGA 3785

Search completed: October 23, 2005, 16:07:15
Job time : 19.5204 secs
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OM nucleic - nucleic search, using sw model

Run on: October 23, 2005, 15:20:46 ; Search time 90.7959 Seconds
(without alignments)
1907.926 Million cell updates/sec

Title: US-10-046-955-51

Perfect score: 21

Sequence: 1 ctaacacctcgcaactggaga 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9772231 seqs, 4124568258 residues

Total number of hits satisfying chosen parameters: 19544462

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications, NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
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- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
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- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq.*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 23: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	21	15	US-10-046-955-51
2	21	100.0	319	15	Sequence 51, Appli
3	19	90.5	552	21	Sequence 6, Appli
4	19	90.5	552	21	Sequence 5, Appli
c 5	16.8	80.0	636	12	Sequence 51, Appli
c 6	16.8	80.0	636	12	Sequence 5, Appli
c 7	16.2	77.1	25	24	Sequence 367816, Sequence 367817, Sequence 784700,

RESULT 1

US-10-046-955-51
; Sequence 51, Application US/10046955
; Publication No. US20030129600A1

GENERAL INFORMATION:

; APPLICANT: The Government of the United States of America, as Represented by the
; APPLICANT: Secretary of the Department of Health and Human Services, Centers for Di
; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Aldorevich, Lilliana
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; TITLE OF INVENTION: Other Filamentous Fungi
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Fusarium solani
US-10-046-955-51

ALIGNMENTS

8	16.2	77.1	403	18	US-10-424-599-123319	Sequence 123319,
9	16.2	77.1	499	13	US-10-027-632-136133	Sequence 136133,
10	16.2	77.1	499	13	US-10-027-632-136134	Sequence 136134,
11	16.2	77.1	499	17	US-10-027-632-136133	Sequence 136133,
12	16.2	77.1	499	17	US-10-027-632-136134	Sequence 136134,
13	16.2	77.1	577	12	US-09-925-065A-487968	Sequence 487968,
c 14	16.2	77.1	655	12	US-09-925-065A-188598	Sequence 188598,
c 15	16.2	77.1	894	19	US-10-437-963-41403	Sequence 41403, A
16	16.2	77.1	1037	13	US-10-027-632-259445	Sequence 259445,
17	16.2	77.1	1037	13	US-10-027-632-259446	Sequence 259446,
18	16.2	77.1	1037	13	US-10-027-632-259447	Sequence 259447,
19	16.2	77.1	1037	17	US-10-027-632-259445	Sequence 259445,
20	16.2	77.1	1037	17	US-10-027-632-259447	Sequence 259447,
21	16.2	77.1	1037	17	US-10-027-632-259447	Sequence 259447,
c 22	16.2	77.1	1699	21	US-10-926-543-10	Sequence 10, Appl
c 23	16.2	77.1	1810	12	US-09-925-065A-83007	Sequence 83007, A
c 24	16.2	77.1	1810	12	US-09-925-065A-83008	Sequence 83008, A
25	16.2	77.1	2385	19	US-10-437-963-99074	Sequence 99074, A
26	16.2	77.1	33769	17	US-10-374-979-8	Sequence 8, Appli
27	16.2	77.1	33769	18	US-10-182-936A-8	Sequence 8, Appli
28	16.2	77.1	33769	19	US-10-731-739-8	Sequence 8, Appli
29	16.2	77.1	33769	20	US-10-477-238A-8	Sequence 8, Appli
30	16.2	77.1	33769	20	US-10-680-287A-8	Sequence 8, Appli
31	16.2	77.1	33769	21	US-10-477-173-8	Sequence 8, Appli
32	16.2	77.1	33769	22	US-10-834-377-8	Sequence 8, Appli
c 33	16.2	77.1	100608	20	US-10-417-375-108	Sequence 108, App
c 34	16.2	77.1	152759	19	US-10-322-281-10	Sequence 10, Appl
c 35	16.2	77.1	156843	13	US-10-087-192-1408	Sequence 1408, Ap
c 36	16	76.2	1118	20	US-10-363-345A-31749	Sequence 31749, A
37	16	76.2	1118	20	US-10-363-345A-31750	Sequence 31750, A
c 38	16	76.2	1118	21	US-10-363-483A-31749	Sequence 31749, A
39	16	76.2	1118	21	US-10-363-483A-31750	Sequence 31750, A
40	15.8	75.2	107	20	US-10-425-115-99902	Sequence 99902, A
c 41	15.8	75.2	341	17	US-10-369-493-29617	Sequence 29617, A
42	15.8	75.2	471	20	US-10-425-115-114694	Sequence 114694,
43	15.8	75.2	879	17	US-10-282-122A-33226	Sequence 33226, A
44	15.8	75.2	1399	24	US-11-097-143-12200	Sequence 12200, A
45	15.8	75.2	1815	24	US-11-097-143-1706	Sequence 1706, Ap

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Query Match      100.0%; Score 21; DB 15; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.99; Mismatches 0; Indels 0; Gaps 0;
Matches 21; Conservative 0;

Qy 1 CTAACACCTCGCAACTGGAGA 21
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Db 1 CTAACACCTCGCAACTGGAGA 21

RESULT 2
US-10-046-955-6
; Sequence 6, Application US/10046955
; Publication No. US20030129600A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as Represented by the
; APPLICANT: Secretary of the Department of Health and Human Services, Centers for Dis
; APPLICANT: Control and Prevention
; APPLICANT: Morrison, Christine J.
; APPLICANT: Reiss, Errol
; APPLICANT: Aidorevich, Lilliana
; APPLICANT: Choi, Jong Soo
; TITLE OF INVENTION: Nucleic Acids for Detecting Aspergillus Species and
; FILE REFERENCE: 6395-62064
; CURRENT APPLICATION NUMBER: US/10/046,955
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 09/423,233
; PRIOR FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: PCT/US98/08926
; PRIOR FILING DATE: 1998-05-01
; PRIOR APPLICATION NUMBER: US 60/045,400
; PRIOR FILING DATE: 1997-05-02
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Fusarium solani
US-10-046-955-6

Query Match      100.0%; Score 21; DB 15; Length 319;
Best Local Similarity 100.0%; Pred. No. 1.1; Mismatches 0; Indels 0; Gaps 0;
Matches 21; Conservative 0;

Qy 1 CTAACACCTCGCAACTGGAGA 21
    |||||
Db 222 CTAACACCTCGCAACTGGAGA 242

RESULT 3
US-10-829-661-5
; Sequence 5, Application US/10829661
; Publication No. US2005009051A1
; GENERAL INFORMATION:
; APPLICANT: HAN XIANG-YANG
; APPLICANT: TARRAND, JEFFREY J.
; APPLICANT: PHAM, AUDREY S.
; APPLICANT: MAY, GREGORY S.
; TITLE OF INVENTION: DIAGNOSIS OF MOULD INFECTION
; FILE REFERENCE: UTSC865US
; CURRENT APPLICATION NUMBER: US/10/829,661
; CURRENT FILING DATE: 2004-04-21
; PRIOR APPLICATION NUMBER: 10/672,300
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/414,008
; PRIOR FILING DATE: 2002-09-27
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 552
; TYPE: DNA
; ORGANISM: Fusarium sp.
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US-10-829-661-5

Query Match      90.5%; Score 19; DB 21; Length 552;
Best Local Similarity 100.0%; Pred. No. 12; Mismatches 0; Indels 0; Gaps 0;
Matches 19; Conservative 0;

Qy 1 CTAACACCTCGCAACTGGGA 19
    |||||
Db 453 CTAACACCTCGCAACTGGGA 471

RESULT 4
US-10-672-300-5
; Sequence 5, Application US/10672300
; Publication No. US20050048509A1
; GENERAL INFORMATION:
; APPLICANT: HAN, XIANG-YANG
; APPLICANT: TARRAND, JEFFREY J.
; TITLE OF INVENTION: DIAGNOSIS OF INVASIVE MOLD INFECTION
; FILE REFERENCE: UTXC-766US
; CURRENT APPLICATION NUMBER: US/10/672,300
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/414,008
; PRIOR FILING DATE: 2002-09-27
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 552
; TYPE: DNA
; ORGANISM: Fusarium sp.
US-10-672-300-5

Query Match      90.5%; Score 19; DB 21; Length 552;
Best Local Similarity 100.0%; Pred. No. 12; Mismatches 0; Indels 0; Gaps 0;
Matches 19; Conservative 0;

Qy 1 CTAACACCTCGCAACTGGGA 19
    |||||
Db 453 CTAACACCTCGCAACTGGGA 471

RESULT 5
US-09-925-065A-367816/c
; Sequence 367816, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 367816
; LENGTH: 636
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-367816

Query Match      80.0%; Score 16.8; DB 12; Length 636;
Best Local Similarity 90.0%; Pred. No. 1.6e+02; Mismatches 2; Indels 0; Gaps 0;
Matches 18; Conservative 0;
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QY 1 CTAACACCTCGCAACTGGAG 20
|||||
Db 230 CTAACACCTCTCAACTGGAG 211

RESULT 6
US-09-925-065A-367817/c
; Sequence 367817, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 367817
; LENGTH: 636
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-367817

Query Match 80.0%; Score 16.8; DB 12; Length 636;
Best Local Similarity 90.0%; Pred. No. 1.6e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAG 20
|||||
Db 230 CTAACACCTCTCAACTGGAG 211

RESULT 7
US-11-036-317-784700/c
; Sequence 784700, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 784700
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-784700

Query Match 77.1%; Score 16.2; DB 24; Length 25;
Best Local Similarity 85.7%; Pred. No. 3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAG 21
|||||
Db 21 CCAACACCTTGTAACCTGGAG 1

RESULT 8
US-10-424-599-123319
; Sequence 123319, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 123319
; LENGTH: 403
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_82365C.1
US-10-424-599-123319

Query Match 77.1%; Score 16.2; DB 18; Length 403;
Best Local Similarity 85.7%; Pred. No. 3.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAG 21
|||||
Db 107 CTAACAGCACACACTGGAG 127

RESULT 9
US-10-027-632-136133
; Sequence 136133, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 136133
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-136133

Query Match 77.1%; Score 16.2; DB 13; Length 499;
Best Local Similarity 85.7%; Pred. No. 3.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAG 21
|||||
Db 55 CTAACCTCTCCCACTGGAG 75

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RESULT 10
US-10-027-632-136134
; Sequence 136134, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 136134
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-136134
Query Match 77.1%; Score 16.2; DB 13; Length 499;
Best Local Similarity 85.7%; Pred. No. 3.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CTAACACCTCGCAACTGGAGA 21
Db 55 CTAACCTCTCCCACTGGAGA 75

RESULT 11
US-10-027-632-136133
; Sequence 136133, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 136133
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-136133
Query Match 77.1%; Score 16.2; DB 13; Length 499;
Best Local Similarity 85.7%; Pred. No. 3.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CTAACACCTCGCAACTGGAGA 21
Db 55 CTAACCTCTCCCACTGGAGA 75

RESULT 12
US-10-027-632-136134
; Sequence 136134, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 136134
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-136134
Query Match 77.1%; Score 16.2; DB 17; Length 499;
Best Local Similarity 85.7%; Pred. No. 3.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CTAACACCTCGCAACTGGAGA 21
Db 55 CTAACCTCTCCCACTGGAGA 75

RESULT 13
US-09-925-065A-487968
; Sequence 487968, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
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FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 41403
LENGTH: 894
TYPE: DNA
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_44751C.1
US-10-437-963-41403

Query Match 77.1%; Score 16.2; DB 12; Length 577;
Best Local Similarity 85.7%; Pred. No. 3.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
DB 71 CTTACCCCTCGCAACTGGAGA 91

RESULT 14
US-09-925-065A-188598/c
Sequence 188598, Application US/09925065A
Publication No. US20050228172A9
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single
TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
FILE REFERENCE: 108827.135
CURRENT APPLICATION NUMBER: US/09/925,065A
CURRENT FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: US 60/243,096
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 60/252,147
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/250,092
PRIOR FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/261,766
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/289,846
PRIOR FILING DATE: 2001-05-09
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 188598
LENGTH: 655
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-065A-188598

Query Match 77.1%; Score 16.2; DB 12; Length 655;
Best Local Similarity 85.7%; Pred. No. 3.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
DB 262 CTACCACTCCCAATGGAGA 242

RESULT 15
US-10-437-963-41403/c
Sequence 41403, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 41403
LENGTH: 894
TYPE: DNA
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_44751C.1
US-10-437-963-41403

Query Match 77.1%; Score 16.2; DB 19; Length 894;
Best Local Similarity 85.7%; Pred. No. 3.3e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTAACACCTCGCAACTGGAGA 21
DB 763 CTGACCCCTCGAACTGGAGA 743

Search completed: October 23, 2005, 23:48:21
Job time : 92.7959 secs

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